

PHASE I ENVIRONMENTAL SITE ASSESSMENT

HARDESTY FEDERAL CENTER
607 HARDESTY AVENUE
KANSAS CITY, MISSOURI

Terracon Project No. 50997737
August 19, 1999

Prepared for:

UNITED STATES GENERAL SERVICES ADMINISTRATION
Kansas City, Missouri

Prepared by:

TERRACON
Lenexa, Kansas

August 19, 1999

United States General Services Administration
Public Building Service
1500 East Bannister Road
Kansas City, Missouri 64131-3088

Attn: Ms. Joan Wissbaum

Re: Phase I Environmental Site Assessment
Hardesty Federal Center
607 Hardesty Avenue
Kansas City, Missouri 64124
Terracon Project No. 50997737

Dear Ms. Wissbaum:

Terracon has completed a Phase I Environmental Site Assessment (Phase I ESA) for the above-referenced site. The Phase I ESA was based on a visual survey of the subject site on May 18, 1999, a reconnaissance of adjoining properties, interviews with individuals knowledgeable about the subject site, a regulatory records review, and a review of site use history. This report contains methods, observations, conclusions, and recommendations made relative to the site. Please read the report carefully for details.

Terracon identified several recognized environmental conditions and potential concerns for the subject site. These conditions and potential concerns are further described in Section 6.0 of this report. Additionally, potential environmental impacts to the subject site from properties within the specified distances from the subject site were identified.

We appreciate the opportunity to be of service to you on this project and look forward to working with you in the future. If there are questions concerning the report, or if we may be of further assistance, please call.

Sincerely,
TERRACON

Prepared by:

Reviewed by:

Tracie A. Ragland
Environmental Scientist

William E. Busch
ESA Center Manager

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PHASE I ENVIRONMENTAL SITE ASSESSMENT
HARDESTY FEDERAL CENTER
607 HARDESTY AVENUE
KANSAS CITY, MISSOURI

Terracon Project No. 50997737
July 23, 1999

1.0 INTRODUCTION

Terracon has completed a Phase I Environmental Site Assessment (Phase I ESA) of the Hardesty Federal Center, referred to hereinafter as the subject site. The subject site is located at 607 Hardesty Avenue in Kansas City, Missouri. This work was performed in general compliance with the consensus document known as ASTM E 1527-97 for conducting environmental site assessments and the General Services Administration Work Order No. 7. The Phase I ESA included the following tasks:

- An on-site visual survey of the subject site, and cursory review of adjoining properties, to observe for "recognized environmental conditions".¹
- Review of available records including commercial database sources of government listings, topographic maps, aerial photographs, etc. to help identify recognized environmental conditions associated with the subject site.
- Interviews with individuals knowledgeable about the site to obtain information indicating recognized environmental conditions associated with the subject site.
- Interviews with, or inquiries to, local government officials to obtain information indicating recognized environmental conditions associated with the subject site.

The purpose of this Phase I ESA was to accumulate data on present conditions and historical uses of the subject site and nearby properties and assess the potential adverse environmental impact that these conditions and uses may have had on the site. We understand that the General Services Administration (GSA) will hereafter evaluate the significance of recognized environmental conditions discussed in this report related to the disposal of the subject site.

¹ "Recognized environmental conditions" are defined in ASTM E 1527-97 as: "the presence or likely presence of any hazardous substances or petroleum products on a property under conditions that indicate an existing release, a past release, or a material threat of a release of any hazardous substances or petroleum products into structures on the property or into the ground, groundwater, or surface water of the property. The term includes hazardous substances or petroleum products even under conditions in compliance with laws. The term is not intended to include de minimis conditions that generally do not present a material risk of harm to public health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies."

2.0 PHYSICAL SETTING

2.1 Location

The subject site is located within the northeast $\frac{1}{4}$ of the northeast $\frac{1}{4}$ of Section 2, Township 49 North, Range 33 West, in Jackson County, Kansas City, Missouri. The subject site address is 607 Hardesty Avenue. The subject site is a triangular-shaped parcel consisting of approximately eighteen (18) acres of developed land which contains seven (7) federal government buildings, associated parking areas, and a storage lot located in the central portion of the metropolitan Kansas City area, in northwest Missouri. The subject site is bounded by a commercial storage structure on the northwest. The subject site is bounded by Independence Avenue and multiple commercial properties on the north, including the following: Price Chopper (grocery store), Total (filling station), a muffler shop, a residence, an auto repair shop, a pawn shop, a restaurant, an auto parts store, and Walgreens (pharmacy). The subject site is bounded by railroad tracks, a parking lot, and Percy Kent Bag Company (manufacturer of paper bags) on the south and east; a metal polishing and chrome plating shop on the east; and Hardesty Avenue, a vacant paved lot, a day care facility, a residential area, and a vacant commercial property on the west.

The subject site location is depicted on Figure 1 of Appendix A which was reproduced from a portion of the United States Geological Survey (USGS) 7.5 minute series topographic map (Kansas City, MO-KS). The Kansas City, MO-KS Quadrangle was published in 1991. A Site Diagram of the subject site and adjoining properties is included as Figure 2 of Appendix A.

2.2 Regional Setting

2.2.1 Regional Topography/Drainage

Jackson County is located in the Iowa and Missouri Deep Loess Hills Resource area of the Central Feed Grains and Livestock Region of the United States. The major features in the county, from north to south, include the Missouri River and the associated nearly level flood plain. Adjacent to the south are moderately sloping hills that are made of moderately well-drained soils covered with loess. The remainder of the county is marked by gently sloping to moderately sloping uplands and flood plains of the Blue River, Little Blue River, Sni-A-Bar Creek, and their associated tributaries. Numerous outcroppings of limestone and shale are present in the uplands and in the bluffs near the above-referenced streams.

2.2.2 Regional Geology

Jackson County is located near the middle of an approximate 150-mile wide, north-south trending band of Pennsylvanian Age rocks that are located in western Missouri and eastern Kansas. Generally, the beds exhibit a subtle prevailing dip to the west-northwest. A prominent section of Pennsylvanian rock strata is well exposed in Kansas City, Missouri in the bluffs along the Missouri River. According to The Stratigraphic Succession in Missouri, Missouri Department of Natural Resources (revised in 1995), the region is underlain by rock units of the Pennsylvanian System and the Missourian Series (Kansas City Group and Pleasanton Group) in the Time Stratigraphic Unit age classification. Alternating layers of shales and limestone, with an occasional sandstone layer, are common in the Kansas City Group, whereas alternating layers of shale and sandstone, with an occasional coal seam and limestone layer, are present in the Pleasanton Group.

2.2.3 Regional Hydrogeology

Jackson County is located in the Saline Groundwater Province. In the upland areas above the alluvial valleys of the Missouri River, the Blue River, and the Little Blue River, the unconsolidated sediment is typically deficient of groundwater. Additionally, some unconfined aquifers are present at the interface of

glacial outwash and underlying shales, but the quality and quantity is not adequate. Almost 1/3 of the state of Missouri is underlain by bedrock aquifers that contain saline water. Saline water is groundwater that contains 1,000 parts per million (ppm) or more of dissolved solids. Total dissolved solids in this region can exceed 20,000 parts per million. The county is underlain by bedrock aquifers at depths of 250 to 400 feet that contain saline water which coincides with the presence of Pennsylvanian rocks. Total thickness of the aquifer ranges from 1,200 to more than 4,000 feet. Due to the fact that Jackson County is located in the Saline Groundwater Province, the main supply of water for domestic usage is from the alluvium of the Missouri River. Some of the localities obtain groundwater from other lesser rivers that flow into the Missouri River or from surface impoundments within the localized watershed. Wells completed in the Missouri River alluvium can produce water discharge rates in excess of 1,000 gallons per minute. Discharge rates of 1,000 gallons per minute typically result in drawdowns of 20 feet or more. Although many smaller towns use water from the alluvium and glacial deposits, cities of 1,000 or more typically depend on surface water from rivers or impoundments. The water reserves of the Missouri River have proven to be in larger supply than demand, as the municipalities located near the river in the region have not had to explore for other water sources.

2.3 Local Setting

2.3.1 Site Topography

Terracon reviewed the 1991 Kansas City, MO-KS Quadrangle published by the United States Geological Survey (USGS) which includes the subject site. Such maps are useful in determining the topographic setting of a property in relation to its surroundings. The subject site appears to be at an approximate average elevation of 790 feet above mean sea level, according to the topographic map. Natural surface drainage of the area generally flows towards the southeast. Well-defined water courses were not observed on the subject site.

2.3.2 Local Soil Types

According to the "Soil Survey of Jackson County, Missouri," published by the United States Department of Agriculture, Soil Conservation Service (USDA-SCS) in 1984, the primary soil type present in the area of the subject site is described as follows:

The Urban land (upland) is found on 5% to 9% slopes. Generally, more than 85% of the surface is covered by asphalt, concrete, buildings or other impervious material. Examples include the following: parking lots, shopping and business centers, railroad yards, and industrial areas. The largest portion of this unit is the Kansas City central business district. These areas are on upland landscapes, the majority of which have undergone cut and fill excavating to reshape the landforms. Identification of the soil types is not practical because of the lack of accessibility and the extreme variability of the soils.

2.3.3 Local Groundwater Conditions

Without the benefit of on-site groundwater monitoring wells surveyed to a datum, groundwater depth and flow direction beneath the subject site cannot be ascertained. However, according to information provided by the Missouri Department of Natural Resources Division of Geology and Land Survey, the near-surface groundwater in the vicinity of the subject site is estimated to occur at a depth of approximately 20 feet below the existing ground surface. The regional direction of groundwater flow in the vicinity of the subject site is inferred to be towards the southeast, reflecting the topography and natural drainage, and is based on the assumption that groundwater flow closely parallels ground surface topography.

3.0 SITE CHARACTERISTICS

Information contained in this section is based on: a visual survey performed by Tracie A. Ragland and William E. Busch of Terracon on May 18, 1999; an interview with Mr. Frank Peoples, maintenance technician with the General Services Administration (GSA) and who also accompanied the Terracon representative during the visual survey; interviews with Mr. Ted Correll, maintenance foreman with the GSA, and Mr. Art Gendreau, who is an engineer with the GSA; and other references included in the following subsections. At the time of the visual survey, the weather was sunny and the temperature was approximately 75°F. Figure 2 in Appendix A is a Site Diagram of the subject site. Photodocumentation of site conditions at the time of Terracon's visual survey is provided in Appendix B.

According to Mr. Ted Correll, who has been associated with the site since 1978, the subject site was developed for its current use as a federal center in the 1940's, and is currently owned by the GSA. In addition, Mr. Correll stated that previous property usage consisted of vacant land. Further, Mr. Art Gendreau stated that he was not aware of previous environmental inspections, environmental investigations, environmental site assessments, or environmental violations on the subject site.

3.1 Current Land Use

The subject site is currently developed with seven (7) federal buildings, associated parking areas, and a storage area on approximately eighteen (18) acres of land. Most of these buildings are currently unoccupied, empty, and/or used for storage. The Federal Aviation Administration (FAA) and the United States Army Corps of Engineers currently occupy two (2) of the buildings at the subject site. The storage area, located on the northeast portion of the subject site, currently contains several pieces of FAA equipment such as landing control equipment, cable, and antenna equipment.

Virtually all of the subject site is occupied by buildings, pavement, or gravel-covered areas.

3.1.1 Structures

Seven (7) structures were observed on the subject site during the visual survey. Each of the buildings are numbered by the GSA. Structure No. 3 (and 3A) is a one-story mechanical building and is approximately 18,098 square feet in size. The building was constructed in the 1940's, according to Mr. Peoples. A basement was observed beneath this building. The building's exterior walls are of brick and cinder block construction, with a flat composite roof. The portion of the building identified as 3A has a sloped metal roof. The building is heated by steam boilers powered with natural gas. Interior finishes present in the building include brick, concrete, and wood floors; concrete ceilings; brick and concrete walls; and fluorescent lighting. This building contained the boilers used to heat the structures located on the subject site via steam tunnels. Mr. Peoples stated that the boilers on the first floor were previously powered with fuel oil, but are currently powered with natural gas. According to Mr. Peoples, the boilers in basement were previously powered with coal, but are currently unused. A twelve-story brick smokestack was observed associated with this building, located to the north of the building. An ash clean-out was observed in the basement, associated with the smokestack. An undetermined quantity of ash was observed in the ash clean-out. The portion of the building identified as 3A was previously used as a train shed and welding shop, according to Mr. Peoples.

Structure No. 6 is a two-story warehouse building and is approximately 56,000 square feet in size. The building was constructed on a concrete slab in the 1940's, according to Mr. Peoples. A basement was not observed beneath this building. The building's exterior walls are of transite panel construction, with a flat roof consisting of a rubberized membrane. Interior finishes present in the building include carpet,

concrete, and vinyl tile floors; acoustical ceiling tiles and concrete ceilings; drywall and cinder block walls; and fluorescent lighting. According to Mr. Charles Sanderson, who is a Technician with the FAA and who works in this structure, this building is currently used as an FAA warehouse for electronic equipment and for electronic equipment assembly. According to Mr. Sanderson, previous use of Building 6 included a United States Army book bindery. According to Mr. Gendreau and Ms. Deon Wolfenbarger, who is an historic preservation consultant, who is currently conducting research on the historical uses of the subject site, Building 6 was originally constructed as a clothing treatment plant. According to information received at the GSA, uniforms were impregnated with gas-resistant chemicals in Building No. 6.

Structure No. 7 is a one-story storage building and is approximately 8,970 square feet in size. The building was constructed on a concrete slab in the 1940's, according to Mr. Peoples. A basement was not observed beneath this building. The building's exterior walls are of concrete construction, with a flat tar roof. Interior finishes present in the building include concrete and vinyl tile floors; acoustical ceiling tiles and concrete ceilings; concrete and cinder block walls; and fluorescent lighting. According to Mr. Peoples, this building is currently used by the United States Army Corps of Engineers for the storage of electronic equipment. According to Mr. Correll, Building 7 was previously used as electrical and plumbing shops.

Structure No. 9 is a two-story warehouse building and is approximately 178,379 square feet in size. The building was constructed in the 1940's, according to Mr. Peoples. A basement was observed beneath this building. The building's exterior walls are of brick construction, with a flat composite roof. Transite panels were also observed on the exterior of the building. Interior finishes present in the building include carpet, concrete, and vinyl tile floors; acoustical tile ceilings and concrete ceilings; drywall and cinder block walls; and fluorescent lighting. The majority of this building was observed as being empty. A firing range was also observed in the basement of this building. According to Mr. Peoples, this building is currently used for limited storage of printing equipment on the first floor. Mr. Peoples stated that Building 9 was previously used by the National Weather Service as a training center. According to Mr. Peoples, weather-related equipment such as radar were used in this building. Mr. Peoples stated that the Federal Emergency Management Agency (FEMA) had also previously used this building. The Terracon representatives did not have access to several rooms that had been previously occupied by FEMA.

Structure No. 10 is a two-story warehouse building and is approximately 92,728 square feet in size. The building was constructed in the 1940's, according to Mr. Peoples. A basement was observed beneath this building. The building's exterior walls are of brick construction, with a flat composite roof covered with gravel. Transite panels were also observed on the exterior of the building. Interior finishes present in the building include concrete and vinyl tile floors; plaster and concrete ceilings; sheetrock and cinder block walls; and fluorescent lighting. This building was observed as being empty. According to Mr. Peoples, Building 10 was previously used as offices and as a warehouse by the US Army Corps of Engineers.

Structure No. 11 is a two-story warehouse/office building and is approximately 216,992 square feet in size. The building was constructed in the 1940's, according to Mr. Peoples. A basement was observed beneath this building. The building's exterior walls are of brick construction, with a flat, gravel-covered rubber roof. Asbestos transite panels were also observed on the exterior of the building. Interior finishes present in the building include concrete and vinyl tile floors; acoustical ceiling tiles, plaster and concrete ceilings; drywall and cinder block walls; and fluorescent lighting. According to Mr. Peoples, this building is currently used for the storage of electronic equipment, and as an auction area for Allied Signal. Mr. Peoples stated that this building was previously used by the Defense Finance & Accounting Center, and the Defense Mapping Department.

Structure No. 13 is a one-story substation transformer building and is approximately 200 square feet in size. The building was constructed on a concrete slab in the 1940's, according to Mr. Peoples. A basement was not observed beneath this building. The building's exterior walls are of concrete construction, with a flat concrete roof. Interior finishes present in the building include concrete floors; metal ceilings; concrete walls; and fluorescent lighting. According to Mr. Peoples, this substation provides electrical power from Kansas City Power and Light to each of the buildings on the subject site.

According to Mr. Charles Sanderson, two (2) or three (3) open concrete underground rooms were formerly located in the grassy area between Buildings No. 6 and 9. Mr. Sanderson stated that these rooms were filled with sand several years ago. According to Mr. Gendreau, these open rooms were originally to be used as holding tanks; however, these holding tanks were reportedly never used, and were filled in with soil. Depressions in the soil in this area appear to support this statement. A Terracon representative visited the GSA office in Kansas City, Missouri to inquire on these reported open rooms. According to a General Layout Plan, dated May 15, 1941, two (2) storage tanks, a recovery tank, a cooling tower, and two (2) pump houses were depicted between Buildings No. 6 and 9. A ground photograph taken in the 1950's depicts a small structure located between Buildings No. 6 and 9. According to a "Completion Report Covering the Construction and Completion of the Clothing Renovating Plant at the Kansas City Quartermaster Depot for Chemical Warfare Service Project P-7-7047-41-2," dated 1941, the purpose of Building No. 6 was to impregnate uniforms with "Impregnate I" to make them resistant to gas attacks. According to information provided by Ms. Deon Wolfenbarger, historic preservation consultant, the tanks located next to Building No. 6 were used to store chemicals used in the impregnating process. It was undetermined if these tanks were above-ground or below ground.

According to Mr. Gendreau, a warehouse structure was formerly located on the southwest portion of the subject site, south of Building 11. Mr. Gendreau also stated that a storage structure was formerly located on the northeast portion of the subject site. Mr. Gendreau stated that these structures were removed from the subject site in the 1970's. A visit to the GSA office revealed the following former structures on the subject site, as observed from ground photograph taken in the 1950's and from a Layout Plan, dated November 28, 1941: Motor Pool Building located on the northeast portion of the subject site; Building No. 4 (a garage) located between Buildings No. 7 and 10; Building No. 5 (a paint house) located northeast of Building No. 4; Building No. 8 (function undetermined) located north of Building No. 11; Building No. 12 (150,000-gallon concrete fuel oil tank located underneath this structure, according to a 1951 Kansas City Records Center Plot Plan of 601 Hardesty Avenue) located east of Building No. 7; Building No. 14 (pump house) located between Buildings No. 6 and 9; Building No. 15 (function undetermined) located east of Building No. 3A; Building No. 16 (function undetermined) located next to Building No. 11; Building No. 18 (function undetermined) located east of Building No. 10; Building No. 20 (garage storage) located east of Building No. 6. According to information received from the GSA, Building No. 20 was used to store satellite dishes and was demolished in 1989. According to the Cultural Resources Assessment of the Hardesty Federal Center, dated July 1999, a Building No. 17 (function undetermined) was formerly located east of Building No. 9, according to a July 7, 1945 Plot Plan of Kansas City Quartermaster Depot. The 1941 Layout Plan reviewed by Terracon only showed a foundational outline of a former structure in the vicinity of Building No. 17; however, no building number was provided on the 1941 map.

3.1.2 Utilities

Electrical service is supplied to the subject site by Kansas City Power and Light. Natural gas is provided by Missouri Gas Energy. Potable water is supplied by the City of Kansas City. Sanitary sewer service is provided by the City of Kansas City. Storm sewer drains were observed throughout the parking areas and the storage lot on the subject site during the visual survey.

3.2 Electrical Transformers and Other Potential PCB Sources

Some older electrical transformers, capacitors, generators, and fluorescent light ballasts may contain polychlorinated biphenyl (PCB) dielectric fluid. PCB is recognized as a toxic substance by the federal government under the Toxic Substance Control Act (TSCA). Transformers containing PCBs at a concentration of 500 parts per million (ppm) or greater are subject to violations. Leakage from transformers containing PCBs onto soil or other permeable surfaces could present an area of environmental concern.

Three (3) transformer substations were observed on the subject site during the site visit at Buildings No. 10, 11, and 13. The substations at Buildings No. 10 and 11 were observed in the respective basements at these buildings. Building No. 13 is the main transformer substation which receives electrical power from Kansas City Power and Light (KCPL), which services the entire federal center, according to Mr. Peoples. Several pad-mounted electrical distribution transformers were observed at each of these three (3) substations. According to Mr. Peoples and a representative of KCPL, these transformers appear to be owned and maintained by KCPL. All of the transformers, except for one (1) transformer located in the substation in the basement at Building No. 10, were labeled as non-PCB. One (1) of the transformers located in the substation in the basement at Building 10 was labeled as PCB contaminated. The following sign was observed attached to this transformer: "PCB contaminated – The liquid in this container is less than 500 parts per million (ppm) PCBs but equal to or greater than 50 ppm PCBs." Surface indications of leakage or spillage from this transformer were not observed. According to Mr. Peoples, PCB-containing dielectric fluids were replaced in all of the remaining transformers at the subject site, with the exception of the one (1) transformer located in the substation in the basement at Building No. 10. Mr. Peoples believed that the dielectric fluids were replaced by Capital Electric; however, he was not certain of this fact.

According to KCPL transformers containing PCB dielectric fluids at concentrations exceeding 500 ppm have been replaced or retro-filled. PCBs at relatively low concentrations are still present in a small percentage of KCPL's older (pre-1984) transformers. KCPL's current practice is to remove PCBs and PCB-contaminated transformers from the system once they are found. KCPL has acknowledged responsibility for cleanup of PCB or non-PCB spills for KCPL-owned transformers or capacitors. Surface indications of leakage or spillage from the transformers observed in each of the three (3) substations were not observed.

Hydraulic forklifts, presses, and grinders were observed in Buildings No. 6, 7, and 11 during the site visit. Indications of hydraulic oil leakage were not observed around this equipment. Hydraulic elevators were observed in Building No. 6 during the site visit. Indications of hydraulic oil leakage were not observed around the equipment in the elevator mechanical room.

Although fluorescent lights were observed on the subject site during the visual survey, fluorescent light ballasts are not typically addressed as an area of potential environmental concern unless the light fixtures are planned for removal and disposal. If these activities are planned, fluorescent light ballasts (manufactured pre-1979) should be sampled and properly disposed of if they contain PCBs.

3.3 Hazardous Materials

Hazardous materials are those which are manufactured and could have an adverse effect on human health or the environment. Hazardous materials could include but are not limited to: hazardous substances as defined by the Comprehensive Environmental Response, Compensation and Liability Act

(CERCLA); hazardous wastes as defined by the Resource Conservation and Recovery Act (RCRA); and petroleum products.

Potentially hazardous materials observed in Building No. 3 (and 3A) on the subject site during the visual survey were noted as: paint, hydraulic oil, and alkaline pH adjuster. Containers with approximate capacities of one gallon to five gallons were observed during the visual survey. Evidence of leakage or staining around the containers was not observed.

Potentially hazardous materials observed in Building No. 6 on the subject site during the visual survey were noted as: paint; spray paint; paint stripper; paint thinner; cleaning products; acetone; propane; foam packing materials (Components A and B); cylinders of compressed oxygen, argon, carbon dioxide, and nitrogen; and transite panels (presumed asbestos) forming the exterior of the building. Containers with approximate capacities of less than one gallon, one gallon, and 55 gallons were observed during the visual survey. Evidence of leakage or staining around the containers was not observed. Evidence of damage to the asbestos transite panels on the exterior of the building was not observed.

Potentially hazardous materials observed in Building No. 7 on the subject site during the visual survey were noted as: household maintenance cleaning and sanitizing products. The containers were observed to be labeled and stored neatly.

Potentially hazardous materials observed in Building No. 9 on the subject site during the visual survey were noted as: hydraulic oil, floor wax, freon, refrigerant, descaler, defoamer, algacide, and exterior transite panels covering the majority of the second floor windows. Containers with approximate capacities of one gallon, five gallons, 20 gallons, 35 gallons, and 55 gallons were observed during the visual survey. Evidence of leakage or staining around the containers was not observed. Evidence of damage to the asbestos transite panels on the exterior of the building was not observed.

Potentially hazardous materials observed in Building No. 10 on the subject site during the visual survey were noted as: hydraulic oil, maintenance cleaning and sanitizing products such as floor strippers and finishes, asbestos thermal system insulation (as indicated by asbestos warning stickers) on the equipment observed in the mechanical room, and exterior transite panels covering the majority of the second floor windows. Containers with an approximate capacity of five gallons were observed during the visual survey. Evidence of leakage or staining around the containers was not observed. Evidence of damage to the transite panels on the exterior of the building, or damage to the thermal system insulation on the mechanical room equipment was not observed.

Potentially hazardous materials observed in Building No. 11 on the subject site during the visual survey were noted as: paints, compressor oil, hydraulic oil, lubricants, algacide, scale/slime control products, maintenance cleaning and sanitizing products, cooling water treatment chemicals, corrosion inhibitors, coolant, cleaning solvents, asbestos thermal system insulation (as indicated by warning stickers) on the equipment observed in the mechanical room, and exterior asbestos transite panels covering the majority of the second floor windows. Containers with approximate capacities of one gallon, five gallons, and 55 gallons were observed during the visual survey. Evidence of leakage or staining around the containers was not observed. Evidence of damage to the asbestos transite panels on the exterior of the building, or damage to the thermal system insulation on the mechanical room equipment was not observed.

Potentially hazardous materials observed in Building No. 13 on the subject site during the visual survey were noted as: hydraulic oil. Containers with an approximate capacity of five gallons were observed during the visual survey. Evidence of leakage or staining around the containers was not observed.

According to the Cultural Resources Assessment of the Hardesty Federal Center, dated July 1999, insecticide was formerly stored in an open storage area on the subject site. Documentation indicating any spills, leaks, or releases of insecticide at the subject site was not discovered in Terracon's review process. Indications of spills, leaks, or releases of insecticides were also not observed at the subject site during the site visit.

Material Safety Data Sheets (MSDS) were not observed at the subject site during the visual survey although matching of MSDS to the containers was not performed, as it is beyond the scope of work.

3.4 Storage Tanks

3.4.1 Above-ground Storage Tanks

Above-ground storage tank (AST) registration is not generally required unless the tank contains hazardous waste/materials or requires a flammable (or combustible) contents permit from the local fire department. In the state of Missouri a permit is generally not required for an AST.

ASTs or surface indications of former ASTs were not observed on the subject site during the visual survey. According to Mr. Peoples and Mr. Correll, ASTs have not been present on the subject site.

3.4.2 Underground Storage Tanks

Underground storage tanks (USTs) are tanks that store regulated substances and have at least 10 percent of their volume, including contents of associated pipes, underground. Surface indications of existing or former USTs could include pump islands, cut-off pipes, fill ports, vent pipes and asphalt patches.

Surface indications of one (1) or two (2) USTs were observed on the subject site during the visual survey. These surface indications included patched pavement located north of Building No. 3, patched pavement and a depression in the pavement located east of Building No. 3A, a fill port located on the northeast exterior side of Building No. 3A, a vent pipe located on the north exterior side of Building No. 3A, and a possible vent pipe located on the north exterior side of Building No. 3. Surface indications of overfilling or spillage from the fill port were not observed during the visual survey.

According to Mr. Gendreau, three (3) former USTs were previously located in the vicinity of Buildings No. 3 and 3A. Mr. Gendreau stated that two (2) of these USTs had approximate capacities of 23,000 gallons each, were of metal construction, and contained fuel oil. According to Mr. Gendreau, the third UST had an approximate capacity of 178,000 gallons, was of concrete construction, and contained fuel oil. According to Mr. Gendreau, all three (3) USTs were removed from the subject site in 1988. Mr. Gendreau stated that evidence of long-term fuel oil leakage was discovered in association with the 178,000-gallon UST during the UST removal activities. According to Mr. Gendreau, petroleum-contaminated soils were removed from the subject site around the area of the 178,000-gallon UST by over-excavation. Mr. Gendreau was unable to provide documentation concerning the reported leakage and remediation of the area around the 178,000-gallon UST. According to a UST Inventory Report of Removed GSA-Owned Tanks, dated June 23, 1999, provided by the GSA, two (2) 23,000-gallon steel heating oil USTs were installed in 1956 at 607 Hardesty Avenue, near Building No. 7, and were removed (date not provided). The Inventory Report also indicated that one (1) 178,000-gallon concrete heating oil UST was installed in 1943, near Building No. 7, and was removed (date not provided). According to a Kansas City Records Center Plot Plan, dated 1951, a 150,000-gallon concrete fuel oil tank (possibly the 178,000-gallon UST) was located under former Building No. 12. This Plot Plan also depicted two (2) 23,500-gallon fuel oil

USTs (possibly the two (2) 23,000-gallon steel USTs) located north of the former Building No. 12. No other information was readily available for review concerning these three (3) former fuel oil USTs.

Mr. Gendreau also stated that pump islands and gasoline USTs were formerly located in the parking area between Buildings No. 7 and 10. Mr. Gendreau was unable to provide any information concerning the age, construction, or removal of these former gasoline USTs. According to Mr. Gendreau, records concerning these USTs would have been kept on file at the GSA for only seven (7) years. A Terracon representative visited the GSA office in Kansas City, Missouri to inquire on these reported former USTs at the subject site. According to a ground photograph taken in the 1950's, a former structure, Building No. 4, was observed between Buildings No. 10 and 7. Three (3) vent pipes were observed in this photograph along the west exterior side of Building No. 4. A "Missouri Gas" pump island was also observed along the west exterior side of Building No. 4. According to a Kansas City Records Center Plot Plan, dated 1951, a gasoline pump, two (2) 1,000-gallon gas USTs, and a 560-gallon gas UST were located west of former Building No. 4. No other information was readily available for review.

Additionally, according to ground photographs taken in the 1950's, a possible vent pipe was observed on the north exterior side of a former building (Building No. 15, function undetermined) located east of Building No. 3A. According to the Kansas City Records Center Plot Plan, a 2,000-gallon fuel oil UST was located north of the location of former Building No. 15. No other information was readily available for review.

According to the Kansas City Records Center Plot Plan, one (1) 1,000-gallon diesel fuel oil UST was located west of Building No. 3; and one (1) 1,500-gallon fuel oil UST was located east of former Building No. 20. According to a hand-written note observed on the Plot Plan, the 1,500-gallon UST was removed from the subject site by Vance Brothers in 1988. Three (3) tanks are also depicted south of Building No. 6, according to the Kansas City Records Center Plot Plan. Tank construction and/or content of these three (3) tanks was not depicted on this Plot Plan. The Plot Plan also did not indicate whether these tanks were USTs or ASTs.

3.5 Contamination Indicators

Contamination indicators could include: stressed vegetation (other than weather-related); spillage/leakage of hazardous materials; stained soil or other permeable surfaces; leachate or waste seeps; waste materials; disposal areas; construction/demolition debris; drums, barrels, or containers which presently or could have formerly contained hazardous or suspect materials; unusual odors, apparent noxious industrial air emissions, or appurtenant structures such as laboratory hoods or incinerators; and surface water discoloration, odor, sheen, or free-floating product.

Potential contamination indicators observed on the subject site during the visual survey included incidental oil staining throughout the parking areas. The staining appeared to be the result of de minimis dripping from vehicles.

Potential contamination indicators observed in Building No. 3 on the subject site during the visual survey were noted as: oil staining on the ground surface surrounding a former oil pump in the basement, two (2) empty 55-gallon drums, and one (1) empty 30-gallon drum. Indications of hazardous materials were not observed in the empty drums. Indications of staining, leaks, or odors from the 55-gallon drums were also not observed.

Potential contamination indicators observed in Building No. 11 on the subject site during the visual survey

were noted as: staining in a basin in the film processing room on the first floor, and a slight odor of film developing chemicals in the film processing room on the first floor.

According to Mr. Peoples, to his knowledge none of the other contamination indicators listed above have been present on the subject site.

3.6 Wastewater/Effluent Discharges

Wastewater/effluent discharge could include: existing or former oil/water separators, sumps, dry wells, catch basins, injection wells, groundwater/wastewater treatment systems, septic tanks, leach fields, floor drains, compressor blowdown, and exterior pipe discharges.

Surface indications of wastewater/effluent discharges observed on the subject site during the visual survey were noted as: floor drains observed in Buildings No. 3, 6, 9, 10, and 11; sump pits observed in the elevator shafts in Buildings No. 9, 10, and 11; a sump pit observed in the basement of Building No. 3; a sump pit observed in the basement of Building No. 10; a former chemical feed pump observed in the photo processing room on the first floor in Building No. 11; and an exhaust hood in the paint shop observed in Building No. 6. Indications of staining or corrosion were not observed in association with the floor drains. According to Mr. Correll, these drains discharge to the municipal sewer system. Connection of the floor drains to the municipal sewer system was not verified. According to Mr. Gendreau, there are no current wastewater discharge permit requirements for the subject site, and it has always been connected to the municipal sewer system. Mr. Peoples stated that the former chemical feed pump in the photo processing room on the first floor in Building No. 11 formerly pumped photo developing chemicals, formerly stored in the basement, up to the photo processing room. According to Mr. Peoples, the pump pipes and pump mechanism have been removed.

According to Mr. Peoples and Mr. Correll, to their knowledge none of the other wastewater/effluent discharges listed above have been present on the subject site.

3.7 Sensitive Receptors

Sensitive receptors are those that could be more acutely affected by or susceptible to a release of hazardous substances on the property. Sensitive receptors could include: exposed soil; surface water bodies and water courses (including streams, washes, lakes, and drainage ditches); impoundments (including lagoons, recharge basins, and detention basins); swamps or wetlands; on-site groundwater monitoring or production wells; parks or nature preserves; and sensitive residents or occupants, such as the very young, elderly, or infirm.

Indications of sensitive receptors observed on the subject site during the visual survey were noted as: a small amount of exposed soil from erosion of the fill material deposited along the northeast boundary of the subject site, along Independence Avenue.

4.0 ADJOINING PROPERTY RECONNAISSANCE

A reconnaissance of adjoining properties was performed by Terracon at the same time as the visual survey of the subject site. The reconnaissance consisted of cursory observation (view from the subject site and public areas) of adjoining properties and land uses to evaluate their potential for having an adverse environmental impact on the subject site.

The area is generally developed with residential and commercial properties. The subject site was bordered by the following streets, properties or land uses:

- A commercial storage structure on the northwest;
- Independence Avenue, Price Chopper (grocery store), Total (filling station), a muffler shop, a residence, an auto repair shop, a pawn shop, a restaurant, an auto parts store, and Walgreens (pharmacy) on the north;
- Railroad tracks, a parking lot, and Percy Kent Bag Company (manufacturer of paper bags) on the south and east;
- A metal polishing and chrome plating shop on the east; and
- Hardesty Avenue, a vacant paved lot, a day care facility, a residential area, and a vacant commercial property on the west.

The adjoining property reconnaissance did not reveal apparent indications of environmental concern with significant potential to impact the subject site, with the possible exceptions of the Total filling station, muffler shop, auto repair shop, and auto parts store to the north of the subject site; the Percy Kent Bag Company to the southeast of the subject site; and the metal polishing and chrome plating shop to the east of the subject site.

Pump islands were observed at the Total filling station, and it is presumed that this adjoining property utilizes USTs for fuel storage. A subsurface release incident at this adjacent property could represent a potential risk of impact to the subject site, should any occur. This adjoining facility was not listed as a Resource Conservation and Recovery Act (RCRA) Generator, according to the VISTA database.

Operations at the muffler shop and auto repair shop facilities presumably include automobile service and maintenance. Such maintenance could include the use and storage of automobile fluid products such as motor oil, fuel, transmission fluid, brake fluid, antifreeze, and solvents. This adjoining facility could represent a potential risk of impact to the subject site from spills, leaks, or releases from any vehicle maintenance fluids, should any occur. These adjoining facilities were not listed as RCRA Generators, according to the VISTA database.

The nature of operations at the auto parts store could include the storage and retail sale of automobile fluid products such as motor oil, fuel additives, transmission fluid, brake fluid, antifreeze, and solvents. This adjoining facility could represent a potential risk of impact to the subject site from any spills or leaks of such automobile fluid products, should any occur. This adjoining facility was not listed as RCRA Generator, according to the VISTA database.

According to a representative of the Percy Kent Bag Company, this facility manufactures paper bags. The nature of operations at this facility could include the storage and use of cleaning solvents and inks for printing. This adjoining facility could represent a potential risk of impact to the subject site from any spills or releases of printing chemicals or solvents, should any occur. According to the Missouri Department of Natural Resources, this facility is listed as a RCRA Small Quantity Generator.

Operations at the metal polishing and chrome plating shop could include the storage and use of solvents, and the generation of metal waste streams. This adjoining facility could represent a potential risk of

impact to the subject site from any spills or releases of solvents and/or metal residues, should any occur. This adjoining facility was listed as a RCRA Small Quantity Generator, according to the VISTA database.

5.0 RECORDS REVIEW

Information in this section is based on the specific references contained within each subsection. Sources of information may include: commercially-available and proprietary regulatory databases, regulatory agency files, directories, and/or aerial photographs. In some of the following subsections, the words "up-gradient," "cross-gradient" and "down-gradient" refer to the presumed groundwater flow direction in relation to the subject site. These presumptions are made by the author and are based subjectively on regional hydrogeologic information, topographic maps, and local site conditions.

Terracon reviewed the USEPA and the Missouri Department of Natural Resources (MDNR) database information provided by VISTA Information Solutions, a contract agency, for indications of environmental concern on and in the vicinity of the subject site. Listed below are the federal and state databases which were searched, the date which they were last updated, and the number of sites with a potential for environmental concern listed within the search area. The search area encompassed distances of up to 1.0 mile from the center of the site as well as the site itself. The database search report is included as Appendix D.

TABLE 1 - FEDERAL AND STATE DATABASES SEARCHED

DATABASE	SITES	UPDATED	RADIUS*(Miles)
<u>FEDERAL</u>			
NPL	0	April 1999	1.0
CERCLIS	1	Mar. 1999	0.5
ERNS	2	Dec. 1998	**
RCRA Generators	4	Feb. 1999	***
RCRA CORRACTS/TSD	1	Feb. 1999	1.0
RCRA Non-CORRACTS/TSD	0	Feb. 1999	0.5
<u>MISSOURI</u>			
SPL	1	Oct. 1998	1.0
LUST	4	Sept. 1998	0.5
SWF	1	Nov. 1998	0.5
UST	3	Nov. 1998	***

*From Center of Subject Site **Subject Site ***Subject Site and Adjoining Properties

Seventeen (17) sites were listed within the specified search distances from the subject site as depicted on the map generated by VISTA Information Solutions, Inc. (VISTA) and included in Appendix D. This map aids in locating listed sites relative to the subject site. Listed sites of potential environmental concern, based upon our review of the information contained in the VISTA report, are discussed below.

5.1 Federal Databases

The following subsections detail Terracon's findings based on a review of various federal databases.

5.1.1 NPL Database

The National Priorities List (NPL) is the United States Environmental Protection Agency's (USEPA) database of uncontrolled or abandoned hazardous waste sites that have been listed for priority remedial actions under the Superfund Program. In order for a site to be included on the NPL, it must either meet or surpass a pre-determined hazard ranking system score, be chosen as a State's top-priority site, or meet all three of the following criteria: 1) the U.S. Department of Health and Human Services issues a health advisory recommending that people be removed from the site to avoid exposure; 2) the USEPA determines that the site represents a significant threat; and 3) the USEPA determines that the remedial action is more cost-effective than removal action.

The NPL database did not list the subject site and did not list NPL sites within the specified search radius from the subject site.

5.1.2 CERCLIS Database

The CERCLIS database is a compilation of sites which the USEPA has investigated or is currently investigating for a release or threatened release of hazardous substances pursuant to the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) of 1980.

After a potential site is discovered by the USEPA, it is entered into the database and a preliminary site assessment is conducted. If warranted, a site investigation is conducted after which a site can be proposed for remediation and placed on the National Priorities List (NPL).

The CERCLIS database did not list the subject site.

The CERCLIS database listed one (1) CERCLA site within the specified search radius from the subject site. This site is:

- PCB Disposal Systems, Inc., 5020 East 10th Street; approximately 0.32 mile southwest and topographically cross-gradient from the subject site.

According to the VISTA database, this CERCLIS facility is not listed in the NPL, and has a "lower priority" qualifier status. According to the VISTA database, "no further remedial actions are planned" for this CERCLIS facility. Based on regulatory status and distance from the subject site, this CERCLIS site does not appear to pose a significant risk to the subject site.

5.1.3 ERNS Database

The Emergency Response Notification System (ERNS) is a listing compiled by the USEPA on reported releases of petroleum and hazardous substances to the air, soil, and/or water. This listing provides a limited amount of information on the type of material involved, the cause of the release, and damages or injuries associated with the release. The ERNS database also lists the agencies notified, the responsible party, and the reporter of the release.

The ERNS database listed the subject site. The release incidents on the subject site are:

- 619 Hardesty Avenue; material spilled: 78 gallons of paint thinner; May 1, 1987.
- National Weather Service Training, 617 Hardesty Avenue, Building 9; material spilled: unknown quantity of asbestos; April 14, 1993.

A Terracon representative contacted the MDNR to inquire on the ERNS listing of the subject site. According to Ms. Sheryl Hoffman, with the Environmental Services Program, any files on the subject site ERNS listing are archived and can only be reviewed at Jefferson City, Missouri. No other information was readily available for review.

A Terracon representative contacted the MDNR Kansas City Regional Office to inquire on the ERNS listing of the subject site. According to Mr. Dennis Beck, ERNS records for the subject site are not on file at the MDNR Kansas City Regional Office.

No information concerning the paint thinner spill was readily available from the GSA. The VISTA database did not indicate how the spill was addressed at the subject site.

According to Mr. Frank Peoples, who is with the GSA, asbestos was removed in some of the buildings

located on the subject site. A Terracon representative contacted the Kansas City Health Department Air Quality Program to inquire on the asbestos ERNS listing of the subject site. According to Ms. Jacky Ali with the Air Quality Program, no records concerning asbestos removal or releases at Building No. 9 of the subject site were available for review at the Department. Ms. Ali stated that the records kept on file at the Air Quality Program are dated from 1994 through 1999. According to Ms. Ali, records dated prior to 1994 are archived. No other information was readily available for review.

5.1.4 RCRA Generators Database

The Resource Conservation and Recovery Act (RCRA) Generators database, maintained by the USEPA, lists facilities in Missouri that generate hazardous waste as part of their normal business practices. Generators are listed as either large, small, or conditionally exempt. Large quantity generators (LQG) produce at least 1000 kilograms (kg)/month of non-acutely hazardous waste or 1 kg/month of acutely hazardous waste. Small quantity generators (SQG) produce 100-1000 kg/month of non-acutely hazardous waste. Conditionally exempt generators (CEG) are those which generate less than 100 kg/month of non-acutely hazardous waste. "Non-regulated" indicates that the facility filed a notification and/or a permit application, but claims not to generate, transport, treat, store or dispose of hazardous waste; or the facility falls into other specified categories of non-regulated under RCRA.

The RCRA Generators database listed the subject site as:

- Federal Aviation Administration Staging, 633 Hardesty Avenue, (LQG).
- Marine Corps Reserve, 607 Hardesty Avenue, Building 11 Door 4, (SQG).

A Terracon representative contacted the MDNR to inquire on the Generator listings of the subject site. According to Mr. Scott Huxstep, with the Hazardous Waste Program, the Federal Aviation Administration Staging facility generates the following waste streams: D002 (corrosive solid waste), D006 (cadmium), and U239 (benzene). According to Mr. Charles Sanderson, who is a technician with the FAA, electronic equipment is assembled and stored in Building No. 6 at the subject site. However, Mr. Sanderson stated that hazardous materials have not been generated or used at Building No. 6 since 1969 when the FAA began to occupy the building. Indications of large amounts of corrosive solid wastes, cadmium, or benzene were not readily observed during the site visit. The VISTA database did not list any RCRA violations for this generator.

According to Mr. Huxstep, the Marine Corps Reserve facility at the subject site is currently listed as an inactive SQG and does not currently generate waste streams. The VISTA database did not list any RCRA violations for this generator.

The RCRA Generators database listed two (2) RCRA sites on properties adjoining the subject site. These sites are:

- Cycle Chrome, Inc., 5801 Independence Avenue, located to the east of the subject site (SQG).
- Percy Kent Bag Company, 5910 Winner Road, located to the southeast of the subject site (SQG).

A Terracon representative contacted the MDNR to inquire on the Generator listing of the adjoining properties. According to Mr. Huxstep, the Cycle Chrome, Inc. facility is a conditionally exempt generator (CEG) that generates the following waste streams: D007 (chromium). The VISTA database did not list any RCRA violations for this generator.

According to Mr. Huxstep, the Percy Kent Bag Company generates the following waste streams: D001 (ignitable solid waste) and F001 (spent halogenated solvents). The VISTA database listed one (1) RCRA violation for this generator: Class 2 violation, action type: written informal. A Terracon representative contacted the MDNR Enforcement Section to inquire on the RCRA violation for this generator. According to Ms. Kathy Flippen with the Enforcement Section, the RCRA violation at this adjacent facility is a minor violation. No other information was readily available.

5.1.5 RCRA CORRACTS/TSD Database

The USEPA maintains a database of RCRA facilities associated with treatment, storage, and disposal (TSD) of hazardous materials which are undergoing "corrective action". A "corrective action" order is issued when there has been a release of hazardous waste or constituents into the environment from a RCRA facility. Corrective actions may be required beyond the facility's boundary and can be required regardless of when the release occurred, even if it predates RCRA.

The RCRA CORRACTS/TSD database did not list the subject site.

The RCRA CORRACTS/TSD database listed one (1) RCRA CORRACTS/TSD site within the specified search radius from the subject site. This site is:

- Armco, Inc., 7000 Roberts; approximately 0.81 mile east and topographically down-gradient from the subject site.

Based on distance and topographically down-gradient position relative to the subject site, this RCRA CORRACTS/TSD site does not appear to pose a significant risk to the subject site.

5.1.6 RCRA Non-CORRACTS/TSD Database

The RCRA Non-CORRACTS/TSD Database is a compilation by the USEPA of facilities which report storage, transportation, treatment, or disposal of hazardous waste. Unlike the RCRA CORRACTS/TSD database, the RCRA Non-CORRACTS/TSD database does not include RCRA facilities where corrective action is required.

The RCRA Non-CORRACTS/TSD database did not list the subject site and did not list RCRA Non-CORRACTS/TSD sites within the specified search radius from the subject site.

5.2 State of Missouri Databases

The following subsections detail Terracon's findings based on a review of various Missouri databases and/or files.

5.2.1 State Priority List

The MDNR maintains a database of state-equivalent national priority list (SPL) sites in the state of Missouri.

This database did not list the subject site.

This database listed one (1) SPL site within the specified search radius from the subject site. This site is:

- Armco, Inc., 7000 Roberts; approximately 0.81 mile east and topographically down-gradient from the subject site.

Based on distance and topographically down-gradient position relative to the subject site, this SPL site does not appear to pose a significant risk to the subject site. This SPL site is also listed in the RCRA CORRACTS/TSD database, as discussed in Section 5.1.5.

5.2.2 State LUST Database

The State of Missouri provides a computer generated database of leaking underground storage tanks in Jackson County.

The LUST database did not list the subject site.

The LUST database listed four (4) LUST sites within the specified search radius from the subject site. These sites are:

- Walgreens, 5420 Independence Avenue; approximately 0.08 mile northwest and topographically up-gradient from the subject site; facility status inactive.
- Git N Go, 5402 Winner Road; approximately 0.25 mile south and topographically down-gradient from the subject site; facility status active.
- Handy Stop #307, 4815 Independence Avenue; approximately 0.42 mile west and topographically cross-gradient from the subject site; facility status inactive.
- Amoco Oil SS #5033, 4722 Independence Avenue; approximately 0.47 mile west and topographically cross-gradient from the subject site; facility status active.

A LUST site with the status of inactive is considered closed, or remediated to the satisfaction of the MDNR. Based on regulatory status, the Walgreens and Handy Stop LUST facilities do not appear to pose a significant risk to the subject site.

Based on distance and topographically cross-gradient position relative to the subject site, the Amoco Oil LUST site does not appear to pose a significant risk to the subject site.

A Terracon representative contacted the MDNR to inquire on the status of the Git N Go LUST site. According to Ms. Valerie Garrett with the Tank Section, the Git N Go LUST site was opened in 1993. No other information was readily available for review. Based on distance and topographically down-gradient position relative to the subject site, the Git N Go LUST site does not appear to pose a significant risk to the subject site.

5.2.3 Solid Waste Facility (SWF) Database

The MDNR maintains a database of solid waste facilities (SWF) located within Missouri. The database information includes the site name, class, operation type, area, estimated site life, and owner.

This database did not list the subject site.

This database listed one (1) solid waste facility within the specified search radius from the subject site. This site is:

- Topping Winner Road, Demolition Landfill; approximately 0.16 mile southeast and topographically down-gradient from the subject site; facility type: construction/demolition, facility status: inactive, permit status: closed.

No violations or indications of hazardous waste storage were listed in the VISTA database concerning this SWF site. Based on site visit observations, this SWF site may be located under a parking lot located southeast of the subject site, across the railroad tracks. Based on its closed status and topographically down-gradient position relative to the subject site, this solid waste facility does not appear to pose a significant risk to the subject site.

5.2.4 UST Database

The MDNR has compiled a database of registered underground storage tanks (USTs) in Jackson County, Missouri which includes the owner and location of the USTs.

This database listed the subject site as:

- Federal Complex, 607 Hardesty Avenue; two (2) 23,000-gallon steel USTs removed, one (1) 178,000-gallon steel UST removed.

The subject site was not listed as a LUST facility. A Terracon representative contacted the MDNR to inquire on the status of these USTs. According to Mr. Rourke Holzschuh and Mr. Tom Fast with the Tank Section, the USTs at the subject site were registered with the MDNR in 1986, and were removed from the subject site (date unknown). According to Mr. Holzschuh, a tank closure notice for the subject site was not received by the MDNR. According to Mr. Fast, no LUST record concerning the subject site is on file at the MDNR. No other information was readily available for review. A Terracon representative contacted the MDNR Kansas City Regional Office to inquire on the status of these USTs. According to Mr. John Crawshaw, fuel oil was stored in all three (3) USTs at the subject site. Mr. Crawshaw stated that these USTs were removed from the subject site (date unknown); however, a closure notice was not on file at the Regional Office. No other information was readily available for review.

According to Mr. Art Gendreau with the GSA, all three (3) USTs were removed from the subject site in 1988. Mr. Gendreau also stated that the 178,000-gallon UST was of concrete construction and not steel. According to a UST Inventory Report of Removed GSA-Owned Tanks, dated June 23, 1999, provided by the GSA, two (2) 23,000-gallon steel heating oil USTs were installed in 1956 at 607 Hardesty Avenue, near Building No. 7, and were removed (date not provided). The Inventory Report also indicated that one (1) 178,000-gallon concrete heating oil UST was installed in 1943, near Building No. 7, and was removed (date not provided).

This database listed two (2) sites with underground storage tanks on properties adjoining the subject site. These sites are:

- Walgreens, 5420 Independence Avenue; located northwest of the subject site, across Independence Avenue; two (2) 6,000-gallon gasoline USTs removed, one (1) 2,500-gallon gasoline UST removed, and one (1) 560-gallon used oil UST removed.
- Total #4403, 5712 Independence Avenue; located north of the subject site, across Independence Avenue; five (5) 10,000-gallon gasoline USTs removed, one (1) 8,000-gallon gasoline UST current, two (2) 10,000-gallon gasoline USTs current, and one (1) 12,000-gallon gasoline UST

current.

The Walgreens UST site is listed as an inactive LUST site, as discussed in Section 5.2.2.

A Terracon representative contacted the MDNR concerning the status of the USTs at the Total station. According to Mr. Tom Fast with the Tank Section, these USTs are in compliance with the 1998 UST upgrade requirements for corrosion protection, spill protection, and overfill protection. This UST site was not listed as a LUST facility in the VISTA database.

5.3 Unmapped Sites

Unmapped sites are those that do not contain sufficient address or location information to evaluate the site listing locations relative to the subject site. The VISTA report listed four (4) facilities in the unmapped sites section.

None of the facilities listed in this section of the Database appear to be on properties within an approximate distance of 0.5 mile from the subject site, based on cursory address checks. These facilities are listed in the VISTA report in Appendix D.

5.4 Local Agency Inquiries

The following subsections detail Terracon's findings based on a review of various local agency databases and files.

5.4.1 Heavy Demolition Department

The Kansas City Heavy Demolition Department was contacted by telephone regarding hazardous materials concerns with the subject site.

According to a representative of the Department, reports of violations of hazardous waste, spills, leaks, or disposal for the subject site, or the entire 600 block of Hardesty Avenue, were not on record at the Department.

5.4.2 Fire Department

The Hazardous Materials Division of the Kansas City, Missouri Fire Department was contacted by fax regarding solid and hazardous waste permits and flammable contents permits, investigation reports, violations, and emergency response incidents/reports for the subject site.

According to Ms. MaryLynn Sheehy, Secretary, incidents of spills, leaks, or releases of hazardous materials/wastes or petroleum products were not on record for the subject site at the Division.

5.5 Historical Topographic Maps

Terracon reviewed the Kansas City, MO-KS Quadrangle published by the United States Geological Survey (USGS), which includes the subject site. The color coding used on the maps indicates areas that are historically-developed, recently-developed, or undeveloped at the time of the publication of the map.

Quadrangle Name	Date	Photorevision Date
Kansas City, MO-KS	1887	NA
Kansas City, MO-KS	1940	NA
Kansas City, MO-KS	1964	NA
Kansas City, MO-KS	1964	1970
Kansas City, MO-KS	1964	1975

- The 1887 topographic map indicates street development in the area of the subject site. However, no structures are shown on this map. Typically, historical topographical maps from the late 1800's do not depict individual structures or development in cities; however, this does not necessarily indicate that the subject site was undeveloped as of 1887.
- The 1940 topographic map does not depict structures on or in the area of the subject site; however, street development is depicted on this map. Typically, historical topographical maps of larger cities do not depict individual structures or development in cities; however, this does not necessarily indicate that the subject site was undeveloped as of 1940. Independence Avenue is depicted to the north of the subject site. Hardesty Avenue is depicted to the west of the subject site.
- The 1964 topographic map indicates that the subject site was developed with what appears to be the current-day federal center with eight (8) structures. These structures include the following: current-day Buildings No. 3, 6, 7, 9, 10, 11; and a structure located on the southwest portion of the subject site, south of Building No. 11. A large structure, possibly the current-day storage facility, is depicted to the northwest of the subject site. Independence Avenue is depicted to the north of the subject site. Railroad tracks and vacant land are depicted to the south and east of the subject site. A small commercial structure is depicted to the east of the subject site. Hardesty Avenue is depicted to the west of the subject site.
- The 1970 photorevision to the 1964 topographic map depicts the subject site and surrounding areas as similar to the 1964 map, with the following addition: Another structure is depicted on the subject site, on the northeast portion of the site.
- The 1975 photorevision to the 1964 topographic map depicts the subject site and surrounding areas as similar to the 1964 map, with the following addition: Two (2) additional structures are depicted on the subject site, on the central portion of the site. One (1) of these two (2) structures appears to be Building No. 3A and the other structure is located between Buildings No. 7 and 10. The total number of structures depicted on the subject site on this map is eleven (11).

5.6 Historical Aerial Photographs

Historical aerial photographs were reviewed to obtain information concerning the history of development on and near the subject site. Although generally flown at medium to high altitudes, they may be useful in visually comparing historic and current conditions. They may also be helpful in determining whether conditions of apparent environmental concern existed on or near the subject site at the time they were taken.

Photographs obtained through the Missouri Department of Transportation and the Terraserver internet access site were reviewed. The year which each photograph was taken, as well as observations noted

during the review, are summarized below. The following years, representing the total available collection of the referenced sources, were reviewed, specifically: 1961, 1966, 1969, 1973, 1983, 1989 and 1990.

- The 1961 photograph indicates that the subject site was developed with what appears to be the current-day federal center. The current-day buildings and smokestack are evident on this photograph. Additional structures are also evident on the subject site: A structure is evident to the south of Building No. 11 (possibly the former warehouse, according to Mr. Art Gendreau with the GSA); a structure is evident to the northwest of Building No. 11 (function undetermined); a structure is evident to the north of Building No. 10 (possibly associated with the former gasoline pumps, according to Mr. Gendreau); a structure is evident to the east of Buildings No. 3 and 3A (possibly associated with the former fuel oil UST); and two (2) structures are evident to the east of Building No. 6 (possibly former storage sheds, according to Mr. Gendreau). Most of the northeast portion of the subject site appears to be used as a parking lot, with some storage. What appears to be either sidewalks or concrete structures on the ground surface (or just below grade) are evident between Buildings No. 6 and 9 (possibly associated with the former, reportedly unused, below grade concrete tanks, according to Mr. Gendreau).

A large commercial structure is evident to the northwest of the subject site. Independence Avenue and multiple commercial developments are evident to the north of the subject site. A commercial structure is evident to the east of the subject site. Hardesty Avenue, a residential area, and commercial structures are evident to the west of the subject site. Commercial structures are evident to the southwest of the subject site. Railroad tracks, grass-covered vacant land, and commercial structures are evident to the south and east of the subject site.

- The 1966 photograph depicts the subject site and surrounding areas as similar to the 1961 photograph, with the following additions: What appear to be two (2) ASTs are evident to the north of the subject site, across Independence Avenue; and the northeast portion of the subject site appears to be used for storage of equipment.
- The 1969 photograph depicts the subject site and surrounding areas as similar to the 1966 photograph.
- The 1973 photograph depicts the subject site and surrounding areas as similar to the 1969 photograph.
- The 1983 photograph depicts the subject site as similar to the 1973 photograph, with the following changes: All of the additional structures on the subject site as evident in the 1961 photograph are no longer evident, with the exception of one of the storage sheds still evident on the northeast portion of the subject site; and the apparent sidewalks or concrete structures on the ground surface (or just below grade) evident between Buildings No. 6 and 9, as evident in the 1961 photograph, are no longer evident.

The 1983 photograph depicts the surrounding areas as similar to the 1973 photograph, with the following changes: One of the two (2) apparent ASTs evident to the north of the subject, across Independence Avenue, is no longer evident; and the grass-covered vacant land evident to the south and east of the subject site, across the railroad tracks, appears to be graded.

- The 1989 photograph depicts the subject site and surrounding areas as similar to the 1983 photograph, with the following change: The graded vacant land evident to the south and east of

the subject site, across the railroad tracks, now appears to be grass-covered.

- The 1990 photograph depicts the subject site and surrounding areas as similar to the 1989 photograph, with the following change: The apparent AST evident to the north of the subject, across Independence Avenue, is no longer evident.

The review of aerial photographs did not provide apparent visual surface indications of recognized environmental conditions on the subject site or adjoining properties, with the possible exception of the two (2) apparent ASTs evident to the north of the subject site, across Independence Avenue, from approximately 1966 through 1989. The contents of these ASTs was undetermined. However, the subject site may have been impacted by any leaks or spills from these ASTs, if they occurred.

5.7 Historical Fire Insurance Maps

Historical fire insurance maps produced by the Sanborn Map Company were reviewed at the Kansas City Public Library to evaluate past uses and relevant characteristics of the subject site and adjoining properties. These maps were originally compiled from field observations and public records by fire insurance underwriters and are now frequently used to provide an indication of past land usage. Fire insurance maps from 1909, 1940, and 1963 were reviewed.

- The 1909 fire insurance map indicates that the subject site was undeveloped and identified as a cultivated field. A small one-story store is depicted to the northwest of the subject site. Independence Avenue, stores, and a residential area are depicted to the north of the subject site. Railroad tracks are depicted to the south and east of the subject site. The Kansas City Cooperage Company is depicted to the southwest of the subject site. Hardesty Avenue, a residential area, and an amusement park are depicted to the west of the subject site.
- The 1940 fire insurance map indicates that the subject site was developed with what appears to be Buildings No. 3 and 3A and a private garage. The current-day smokestack is also depicted on the subject site, north of Building No. 3. The following description concerning Buildings No. 3 and 3A is depicted on the map: Built 1920; engine room/boiler room; independent electric plant; one-story with a basement; fire proof construction; concrete frame, floors, and roof; brick curtain walls; concrete underground wash room; concrete underground trash room and pipe shop; coal room in basement; unloading house on first floor; and not sprinklered. Two (2) underground fuel oil tanks are depicted to the east of Building No. 3A. A concrete cooling basin is depicted to the southeast of Building No. 3A. Railroad tracks are depicted on the subject site, entering Building No. 3A. The following description concerning the private garage is depicted on the map: one-story; capacity ten trucks; concrete floor; steel frame and trusses; and automatic sprinklers all floors of building.

The U.S. Army Quartermasters Depot – Kansas City Branch is depicted to the northwest of the subject site. Independence Avenue, stores, restaurants, and a filling station with three (3) gasoline tanks are depicted to the north of the subject site. The Kansas City Terminal Railroad is depicted south and east of the subject site. An ornamental iron works facility is depicted to the southwest of the subject site. Hardesty Avenue, stores, and a residential area are depicted to the west of the subject site.

- The 1963 revision to the 1940 fire insurance map depicts the subject site and surrounding areas as similar to the 1940 map, with the following additions: An automobile repair shop and an automobile sales lot are depicted to the north of the subject site, across Independence Avenue.

The review of fire insurance maps did not provide apparent indications of suspect site usage or recognized environmental conditions on the subject site or adjoining properties, with the following exceptions: two (2) fuel oil USTs on the subject site; private garage on the subject site; and a filling station and automobile repair shop to the north of the subject site.

The subject site may have been impacted by leaks or spills from the fuel oil USTs, should any have occurred. The nature of operations at the private garage on the subject site may have included automobile service and maintenance. Such maintenance could have included the use and storage of automobile fluid products such as motor oil, fuel, transmission fluid, brake fluid, antifreeze, and solvents. This garage could have potentially impacted the subject site from spills, leaks, or releases from any vehicle maintenance fluids, should any have occurred.

The filling station to the north of the subject site was depicted as having three (3) gasoline storage tanks. Since the map did not indicate that these tanks were USTs, it is presumable that these tanks were ASTs. Spills or leaks from these tanks at this adjacent property could have potentially impacted the subject site, should any have occurred. The nature of operations at the automobile repair shop to the north of the subject site may have included automobile service and maintenance. Such maintenance could have included the use and storage of automobile fluid products such as motor oil, fuel, transmission fluid, brake fluid, antifreeze, and solvents. This adjoining facility could have potentially impacted the subject site from spills, leaks, or releases from any vehicle maintenance fluids, should any have occurred.

5.8 Title History

Title information from 1935 to the present was provided to Terracon by Milliken & Michaels Information Services. This information indicated that historical ownership of the subject site has been by the United States of America since 1940. The nature of operations at the subject site was not determined through the title history since only the names of the owners of the deeds were provided in the title history. No environmental leases or liens imposed by law were observed within the records. The information reviewed during this evaluation is presented in Appendix C.

5.9 Library

The reference department of the Kansas City Public Library was consulted for ownership and use history of the subject site. Information is available from street cross-reference directories, Polk's Kansas City, Missouri Directories (available since 1927). Street directories were reviewed at five (5) year intervals, based on historical interview information indicating that the subject site has been historically used as a federal center since approximately the 1940's. Since the federal center has been historically represented with only one (1) address, and since the building to the northwest of the subject site was once part of the federal center, addresses for the entire 600 block of Hardesty Avenue were reviewed. Street cross-reference directories published since 1927 show the following business or facility listings for the subject site:

- 1927-1933: no listings for the 600 block of Hardesty Avenue.
- 1936: **611 Hardesty Avenue:** National Bellas Hess, Inc. (mail orders).*
- 1941: **603 Hardesty Avenue:** Baker-Lockwood Mfg., Co., Inc. (awnings).*
- 1949: **601 to 605 Hardesty Avenue:** U.S. Army and Air Force KS-MO Recruiting District, Army Organized Reserve Corps, Kansas City Quartermaster Activities, Kansas City Records Center,

- Kansas City Signal Center, Regional Post Engineers.
- 1952: **601 to 605 Hardesty Avenue:** Kansas City Quartermaster Activities, Kansas City Records Center, Kansas City Signal Corps, Regional Post Engineers, Missouri Engineer Detachment.
 - 1957: **601 to 605 Hardesty Avenue:** Kansas City Records Center, USPO Money Order Center, Reserve Training Center.
 - 1962: **601 Hardesty Avenue:** Federal Building, USPO Money Order Center, Reserve Training Center, U.S. Department of Defense, Department of Air Force
625 Hardesty Avenue: U.S. Army Map Service.
 - 1967: **601 Hardesty Avenue:** General Service Administration (GSA), U.S. Department of Defense Depot Army Reserve Center, U.S. Army Home Town News Center (News), U.S. Defense Contract Administration Service, U.S. Regional Commander Headquarter, Regional Food Inspection Service, U.S. Department Kansas Field Office.
623 Hardesty Avenue: U.S. Defense Personnel Support Center.
625 Hardesty Avenue: U.S. Defense Army Mapping Service.
 - 1972: **601 Hardesty Avenue:** GSA, U.S. Department of Defense Depot Army Reserve Center, News, USA Civil Defense, U.S. Federal Supply Service, U.S. Veterinary Food Inspection Service, National Weather Service Training Center Unit (NWSTCU), Environmental Science Services Administration.
625 Hardesty Avenue: U.S. Topographical Command.
 - 1977: **601 Hardesty Avenue:** GSA, U.S. Army Reserve Training Center, News, U.S. Federal Aviation Administration (FAA), NWSTCU, Central Logistics Supply Center.
 - 1982: **605 Hardesty Avenue:** Federal Center, Hardesty Staging, National Reconditioning Center.
607 Hardesty Avenue: vacant.
609 Hardesty Avenue: Defense Mapping Agency, Aerospace Cartography.
617 Hardesty Avenue: U.S. National Oceanic and Atmospheric Administration (NOAA), NWSTCU.
619 Hardesty Avenue: Central Logistics Supply Center.
623 Hardesty Avenue: Public Building Service (plumbing shop), custodial force
633 Hardesty Avenue: FAA Airway Facilities.
 - 1987: **605 Hardesty Avenue:** Federal Center, Hardesty Staging, NOAA.
607 Hardesty Avenue: U.S. Federal Protective Service, GSA.
609 Hardesty Avenue: Defense Mapping Agency, Aerospace Cartography.
617 Hardesty Avenue: NOAA.
619 Hardesty Avenue: U.S. Commerce Department.
633 Hardesty Avenue: FAA Airway Facilities (staging area), Department of Transportation FAA (field maintenance party).
 - 1992: **607 Hardesty Avenue:** U.S. Federal Protective Service, Federal Center, U.S. Social Security Administration.
609 Hardesty Avenue: vacant.
617 Hardesty Avenue: NOAA.
619 Hardesty Avenue: vacant.
633 Hardesty Avenue: FAA.
 - 1997: **607 Hardesty Avenue:** U.S. Army Corps of Engineers.
633 Hardesty Avenue: Airway Facilities Staging.

Since the entire 600 block of Hardesty Avenue was reviewed for address listings, some of the above-listed addresses potentially reflect occupancy of the building located northwest-adjacent to the subject site, and are not part of the subject site. The addresses which are suspected of being associated with this northwest-adjacent structure are marked with an asterisk (*).

The earliest listings for addresses at the subject site in the 600 block of Hardesty Avenue, was in 1949 with the above-mentioned tenants. Since 1949 the subject site appears to have been used as a federal center, occupied by various government departments, according to the directories.

5.10 Tuttle-Ayers Map

The 1925 Tuttle-Ayers Survey Map was reviewed at the Kansas City Public Library to evaluate past uses and relevant characteristics of the subject site and adjoining properties. These maps generally depict structures and street development of early development in Kansas City, Missouri. The map showed the following:

- The map depicts the subject site as developed with the current-day Building No. 3. Railroad tracks are also depicted on the subject site. The subject site is identified as the National Cloak and Suit Company. A large commercial structure is depicted to the northwest of the subject site. Independence Avenue is depicted to the north of the subject site. Railroad tracks are depicted to the south and east of the subject site. Hardesty Avenue, a residential area, and Daniels Lumber Company are depicted to the west of the subject site.

The review of the survey map did not provide apparent indications of suspect site usage or recognized environmental conditions on the subject site or adjoining properties, with the possible exception of the Daniels Lumber Company depicted to the west of the subject site. The subject site may have been impacted by possible leaks and/or spills from any chemicals or hazardous materials that may have been stored or used on the subject site, such as chemical wood preservatives, oils, creosote, or paints, should any have occurred.

5.11 Previous Report Review

An Asbestos Inventory of the current-day structures located at the subject site was reviewed. This inventory was printed on June 23, 1999, and provided by the GSA. According to Mr. Kevin Santee, who is with the GSA, sampling of suspect asbestos-containing material (ACM) was conducted at the Hardesty Federal Center circa 1992. An asbestos-containing material (ACM) is defined by federal regulations as a material which contains more than one percent (>1%) asbestos. The following is a summary of the inventory:

- Analytical results indicated that asbestos was found in thirty-one (31) samples collected from Building No. 3. These 31 samples included thermal system insulation, such as pipe wrap, tank insulation, and fittings. Positive asbestos sample locations included the upper and lower boiler rooms, tunnels, and the older and newer boilers.
- Analytical results indicated that asbestos was found in seventeen (17) samples collected from Building No. 6. These 17 samples included thermal system insulation, such as pipe wrap, and miscellaneous samples, such as floor tiles and wall panels. Positive asbestos sample locations included the loading dock, laboratory, staging area, warehouse, offices, training room, stairwell, and exterior of the building.
- Analytical results indicated that asbestos was found in twelve (12) samples collected from Building No. 7. These 12 samples included thermal system insulation, such as pipe wrap and fittings, and miscellaneous samples, such as floor tile. Positive asbestos sample locations included the entire building, tunnel, and crawlspace under the building.

- Analytical results indicated that asbestos was found in sixty-two (62) samples collected from Building No. 9. These 62 samples included thermal system insulation, such as pipe wrap, and miscellaneous samples, such as floor tiles and window panels. Positive asbestos sample locations included the basement, first floor, second floor, restroom, mechanical room, weather service room, warehouse, offices, stairwell, and exterior of the building.
- Analytical results indicated that asbestos was found in forty-three (43) samples collected from Building No. 10. These 43 samples included thermal system insulation, such as pipe wrap, and miscellaneous samples, such as floor tiles and window panels. Positive asbestos sample locations included the first floor, warehouse, restrooms, tunnel, substation, kitchen, and exterior of the building.
- Analytical results indicated that asbestos was found in ninety-seven (97) samples collected from Building No. 11. These 97 samples included thermal system insulation, such as pipe wrap, and miscellaneous samples, such as floor tiles, ceiling tiles, window panels, and wall panels. Positive asbestos sample locations included the welding shop, warehouse, mechanical room, offices, restrooms, tunnel, loading dock, lobby, cooling tower, and elevator penthouse.
- Analytical results indicated that asbestos was found in six (6) samples collected from Building No. 13. These 6 samples included thermal system insulation, such as pipe wrap, and miscellaneous samples, such as panels. Positive asbestos sample locations included the substation interior.

Quantities of the ACM, friability of the ACM (material that, when dry, may be crumbled, pulverized, or reduced to powder by hand pressure), date of abatement or removal of ACM, as well as the number and types of non-ACM sampled, was not available in the inventory or readily available for review. According to Mr. Art Gendreau with the GSA, an Operations and Maintenance Plan concerning asbestos at the subject site is kept on file at the GSA and at the subject site. However, Mr. Gendreau did not know the date of the O&M Plan, but speculated that it was less than five years old.

An Oil-Filled Electrical Equipment Inventory Report, indicating the levels of polychlorinated biphenyl (PCB) dielectric fluid in transformers, printed on June 23, 1999, for the current-day structures located at the subject site was reviewed. This inventory was provided by the GSA. The following table summarizes the information contained in the report.

Building No.	Evaluation Date	Equipment	PCB Content in parts per million	Status as of Evaluation Date
3	Feb. 5, 1986	Transformer	50-500	In-service
10	Feb. 5, 1986	Transformer	50-500	In-service
	Jan. 19, 1999	Transformer	70	In-service
11	Aug. 1, 1987	Transformer	>500	Out of service, Disposed
	July 10, 1987	Transformer	>500	Out of service, Disposed

6.0 FINDINGS, CONCLUSIONS, AND RECOMMENDATIONS²

6.1 Summary of Findings³

Terracon has performed a Phase I Environmental Site Assessment of the subject site. Based on the tasks completed, the following findings are reiterated:

- The site reconnaissance revealed that the subject site is currently developed with seven (7) federal government buildings, associated parking areas, and a storage lot consisting of approximately eighteen (18) acres. Indications of the following recognized or potential environmental conditions were observed on the subject site during the site reconnaissance:
 - Surface indications of one (1) or two (2) USTs including patched pavement north of Building No. 3, patched pavement and a depression in the pavement east of Building No. 3A, a fill port located on the northeast exterior side of Building No. 3A, a vent pipe located on the north exterior side of Building No. 3A, and a possible vent pipe located on the north exterior side of Building No. 3.
 - Oil staining on the ground surface surrounding a former oil pump observed in the basement of Building No. 3.
 - A slight odor of film developing chemicals and staining in a basin in the film processing room on the first floor of Building No. 11.

The following materials were also observed on the subject site:

- Buildings No. 3 and 3A: paint, hydraulic oil, and alkaline pH adjuster.
- Building No. 6: paint; spray paint; paint stripper; paint thinner; cleaning products; acetone; propane; foam packing materials (Components A and B); cylinders of compressed oxygen, argon, carbon dioxide, and nitrogen; and transite (presumed asbestos) panels forming the exterior of the building.
- Building No. 7: household maintenance cleaning and sanitizing products.
- Building No. 9: hydraulic oil, floor wax, freon, refrigerant, descaler, defoamer, algaecide, and exterior transite panels covering the majority of the second floor windows.
- Building No. 10: hydraulic oil, maintenance cleaning and sanitizing products such as floor strippers and finishes, asbestos thermal system insulation (as indicated by warning stickers) observed on the equipment in the mechanical room, and exterior asbestos transite panels covering the majority of the second floor windows.
- Building No. 11: paints, compressor oil, hydraulic oil, lubricants, algaecide, scale/slime control products, maintenance cleaning and sanitizing products, cooling water treatment chemicals, corrosion inhibitors, coolant, cleaning solvents, asbestos thermal system insulation observed on the equipment in the mechanical room, and exterior transite panels covering the majority of the second floor windows.
- Building No. 13: hydraulic oil.

² It should be recognized that details have not been included or fully developed in this section and that the report must be read in its entirety for a comprehensive understanding of the items contained herein.

³ The order of presentation of items in this section generally follows the order of presentation in the previous sections of the report and does not infer any ranking of priority or degree of risk.

- A cursory review of immediately adjoining properties to the subject site did not reveal apparent indications of environmental concern with significant potential to impact the subject site, with the possible following exceptions:
 - Total filling station, a muffler shop, an auto repair shop, and an auto parts store located to the north of the subject site; the Percy Kent Bag Company located to the southeast of the subject site; and the metal polishing and chrome plating shop located to the east of the subject site.
- An interview with Mr. Ted Correll, who is a maintenance foreman with the GSA, indicated the subject site was developed as a federal center in the 1940's. In addition, Mr. Correll stated that previous property usage consisted of vacant land. Further, Mr. Art Gendreau, who is an engineer with the GSA, stated that he was not aware of environmental concerns or environmental litigation, administrative proceedings, violations or liens associated with the subject site. However according to Mr. Frank Peoples, who is a maintenance technician with the GSA, asbestos has been removed from several of the buildings on the subject site. Mr. Peoples also stated that some asbestos still remains in some of the structures on the subject site.
- Review of USEPA and MDNR environmental databases revealed the following concerning the subject site:
 - 619 Hardesty Avenue; material spilled: 78 gallons of paint thinner; May 1, 1987.
 - National Weather Service Training, 617 Hardesty Avenue, Building 9; material spilled: unknown quantity of asbestos; April 14, 1993.
 - Federal Aviation Administration Staging, 633 Hardesty Avenue, (LQG).
 - Marine Corps Reserve, 607 Hardesty Avenue, Building 11 Door 4, (SQG).
 - Federal Complex, 607 Hardesty Avenue; two (2) 23,000-gallon steel USTs removed, one (1) 178,000-gallon steel UST removed.

Review of USEPA and MDNR environmental databases revealed the following concerning properties within the specified search distances from the subject site which may represent potential risk of impact to the subject site:

- RCRA SQG: Cycle Chrome, Inc., 5801 Independence Avenue, located to the east of the subject site.
 - RCRA SQG: Percy Kent Bag Company, 5910 Winner Road, located to the southeast of the subject site.
 - LUST site: Walgreens, 5420 Independence Avenue; approximately 0.08 mile northwest and topographically up-gradient from the subject site; facility status inactive.
 - UST site: Total #4403, 5712 Independence Avenue; located north of the subject site, across Independence Avenue; five (5) 10,000-gallon gasoline USTs removed, one (1) 8,000-gallon gasoline UST current, two (2) 10,000-gallon gasoline USTs current, and one (1) 12,000-gallon gasoline UST current.
- Review of historical topographic maps, aerial photographs, fire insurance maps, Tuttle-Ayers survey map, title history, and library records revealed the subject site was first developed between 1909 and 1940 with what appears to have been Buildings No. 3 and 3A and a private garage. The following indications of potential environmental concern were identified during the review of these historical sources:

- Two (2) fuel oil USTs on the subject site, and a private garage on the subject site.
- An inquiry to Hazardous Materials Division of the Kansas City, Missouri Fire Department indicated that incidents of spills, leaks, or releases of hazardous materials/wastes or petroleum products were not on record for the subject site at the Department.
- An Asbestos Inventory, printed on June 23, 1999, of the current-day structures located at the subject site was reviewed. This inventory indicated that ACM was identified all seven (7) structures at the subject site. An Oil-Filled Electrical Equipment Inventory Report, printed on June 23, 1999, for the current-day structures located at the subject site was also reviewed. This report indicated that transformers containing PCBs at a concentration of greater than 50 ppm have been or may still be present in the structures at the subject site.

6.2 Conclusions and Recommendations⁴

Terracon has performed a Phase I Environmental Site Assessment of the subject site in general conformance with the scope and limitations of the consensus document known as ASTM E 1527-97. This assessment has revealed the following recognized environmental conditions and potential concerns in connection with the subject site:

- **Potentially Hazardous Materials:** The following potentially hazardous materials were observed on the subject site:
 - Buildings No. 3 and 3A: paint, hydraulic oil, and alkaline pH adjuster.
 - Building No. 6: paint; spray paint; paint stripper; paint thinner; cleaning products; acetone; propane; foam packing materials (Components A and B); cylinders of compressed oxygen, argon, carbon dioxide, and nitrogen; and transite panels forming the exterior of the building.
 - Building No. 7: household maintenance cleaning and sanitizing products.
 - Building No. 9: hydraulic oil, floor wax, freon, refrigerant, descaler, defoamer, algaecide, and exterior transite panels covering the majority of the second floor windows.
 - Building No. 10: hydraulic oil, maintenance cleaning and sanitizing products such as floor strippers and finishes, thermal system insulation observed on the equipment in the mechanical room, and exterior transite panels covering the majority of the second floor windows.
 - Building No. 11: paints, compressor oil, hydraulic oil, lubricants, algaecide, scale/slime control products, maintenance cleaning and sanitizing products, cooling water treatment chemicals, corrosion inhibitors, coolant, cleaning solvents, thermal system insulation observed on the equipment in the mechanical room, and exterior transite panels covering the majority of the second floor windows.
 - Building No. 13: hydraulic oil.

Containers and drums with approximate capacities from less than one gallon to 55 gallons were observed at the subject site. Evidence of leakage or staining around the containers or drums was not observed. Evidence of damage to the asbestos transite panels on the exterior of the buildings

⁴ The order of presentation of the items in this section generally follows the order of presentation in the previous sections of the report and does not infer any ranking of priority or degree of risk.

was not observed. Evidence of damage to the thermal system insulation on the mechanical room equipment in the buildings was not observed.

If these potentially hazardous materials are to remain at the subject site, to reduce the potential for accidental spills, Terracon recommends that the drums be equipped with secondary containment devices such as poly-spill pallets. Spill response materials should be kept on-site for immediate response in the event that future spills occur. If these potentially hazardous materials are not to remain at the subject site, Terracon recommends that these materials be properly disposed.

- **Former or Present Underground Storage Tanks on Subject Site:** Indications of the presence of USTs in close proximity to Buildings No. 3 and 3A on the subject site were observed: two (2) vent pipes, one (1) fill port, patches in the pavement, and a depression in the pavement. According to Mr. Art Gendreau with the GSA, three (3) USTs were formerly located east of Building No. 3A on the subject site, and were reportedly removed in 1988. According to a UST Inventory Report of Removed GSA-Owned Tanks, dated June 23, 1999, two (2) 23,000-gallon steel heating oil USTs were installed in 1956 at 607 Hardesty Avenue, near Building No. 7, and were removed (date not provided). The Inventory Report also indicated that one (1) 178,000-gallon concrete heating oil UST was installed in 1943, near Building No. 7, and was removed (date not provided). According to Mr. Gendreau, evidence of fuel oil leakage was discovered upon removal of these USTs, and was remediated by over-excavation. According to the MDNR, these USTs were registered with the MDNR in 1986 and removed (date unknown). However, records of tank removal, or closure for the subject site have not been readily available from state or local agencies. These former USTs may have impacted subsurface soil or groundwater beneath the subject site and may be considered an area of potential environmental concern.

Additionally, Mr. Gendreau stated that gasoline pump islands and USTs were formerly located between Buildings No. 7 and 10 on the subject site. According to a ground photograph taken in the 1950's, a former structure, Building No. 4, was observed between Buildings No. 10 and 7. Three (3) vent pipes and a "Missouri Gas" pump island were observed in this photograph along the west exterior side of Building No. 4. According to a Kansas City Records Center Plot Plan, dated 1951, a gasoline pump, two (2) 1,000-gallon gasoline USTs, and a 560-gallon gasoline UST were located west of former Building No. 4. Records of tank registration, removal, or closure for these potential USTs at the subject site have not been readily available from state or local agencies, or from the GSA. These former or present USTs may have impacted subsurface soil or groundwater beneath the subject site and may be considered an area of potential environmental concern.

According to ground photographs taken in the 1950's, a possible vent pipe was observed on the north exterior side of a former structure, Building No. 15, located east of Building No. 3A. According to the Kansas City Records Center Plot Plan, a 2,000-gallon fuel oil UST was located north of the location of former Building No. 15. Records of tank registration, removal, or closure for this potential UST at the subject site have not been readily available from state or local agencies, or from the GSA. This former or present UST may have impacted subsurface soil or groundwater beneath the subject site and may be considered an area of potential environmental concern.

According to the Kansas City Records Center Plot Plan, one (1) 1,000-gallon diesel fuel oil UST was located west of Building No. 3; and one (1) 1,500-gallon fuel oil UST was located east of former Building No. 20. According to a hand-written note observed on the Plot Plan, the 1,500-

gallon UST was removed from the subject site by Vance Brothers in 1988. Three (3) tanks are also depicted south of Building No. 6, according to the Kansas City Records Center Plot Plan. Tank construction and/or content of these three (3) tanks was not depicted on this Plot Plan. The Plot Plan also did not indicate whether these tanks were USTs or ASTs. Records of tank registration, removal, or closure for these potential USTs at the subject site have not been readily available from state or local agencies, or from the GSA. These former or present USTs may have impacted subsurface soil or groundwater beneath the subject site and may be considered an area of potential environmental concern.

Terracon recommends a magnetometer exploration of the subject site to further evaluate whether USTs are still present on the subject site. If USTs are still present, Terracon recommends that the USTs be removed in accordance with MDNR regulations, and that soil borings be advanced around the tank area and soil samples collected. The soil samples should be analyzed for total petroleum hydrocarbons; benzene, toluene, ethylbenzene, xylenes (BTEX); and methyl tertiary butyl ether (MTBE) (EPA method 8015) (OA-1/OA-2) to determine if petroleum contamination is present.

- **RCRA Large Quantity Generator Listing of the Subject Site:** According to the VISTA database, the subject site at 633 Hardesty Avenue (Federal Aviation Administration Staging) is a LQG of hazardous waste. According to the MDNR, the Federal Aviation Administration Staging facility generates the following waste streams: D002 (corrosive solid waste), D006 (cadmium), and U239 (benzene). However, according to Mr. Charles Sanderson, who is a technician with the FAA at the subject site, electronic equipment is assembled and stored in Building No. 6 (FAA facility) at the subject site. Mr. Sanderson stated that hazardous materials have not been generated or used at Building No. 6 since 1969 when the FAA began to occupy the building. Indications of large amounts of corrosive solid wastes, cadmium, or benzene were not readily observed during the site visit. The VISTA database did not list any RCRA violations for this generator.

Terracon recommends that a file review be conducted to determine the nature of the LQG listing of the subject site. If hazardous wastes are not currently being generated at the subject site, Terracon recommends that contact be made with the MDNR to update the generator listing of the subject site.

- **Underground Storage Tanks on Adjoining Property:** USTs are located at the Total fuel station that adjoins the subject site to the north, across Independence Avenue. This Amoco facility is identified in the VISTA database as a UST site with one (1) 8,000-gallon, two (2) 10,000-gallon, and one (1) 12,000-gallon gasoline USTs, current. This site is not listed as a LUST site, according to the VISTA database. According to the MDNR, all four (4) tanks are in compliance with the 1998 UST upgrade requirements for corrosion protection, spill protection, and overfill protection. Although no evidence was found to indicate that this facility has adversely impacted the subject site, these USTs may be considered an area of potential environmental concern due to their proximity to the subject site.
- **Off-site Leaking Underground Storage Tanks:** The Walgreens site, located at 5420 Independence Avenue, northwest-adjacent to the subject site (across Independence Avenue) is listed as a LUST site with a facility status of inactive, according to the VISTA database. A LUST site with the status of inactive is considered closed, or remediated to the satisfaction of the MDNR. As a result, it does not appear that additional remedial action will be required at this adjacent

facility. Additionally, several USTs were removed from this adjacent facility. Although no evidence was found to indicate that this facility has adversely impacted the subject site, this off-site LUST site may be considered an area of potential environmental concern due to proximity to the subject site.

- **Surface Staining and Odors:** Oil staining was observed on the ground surface surrounding a former oil pump in the basement of Building No. 3. A slight odor of film developing chemicals and staining was observed in a basin in the film processing room on the first floor of Building No. 11. Depending on the nature and extent of the contaminant, surface staining may be a potential environmental liability.

The area of surface staining observed around the former oil pump in the basement of Building No. 3 should be removed (i.e. excavated) and disposed of properly. Following removal, post-removal soil samples should be collected and analyzed for total petroleum hydrocarbons (TPH), benzene, toluene, ethylbenzene, xylenes (BTEX), methyl tertiary butyl ether (MTBE), and volatile organic compounds (VOCs) to verify petroleum contaminant removal.

The nature of surface staining observed in a basin in the film processing room on the first floor of Building No. 11 should be determined, and the surface staining should be removed and disposed of properly.

- **Smokestack Ash:** An undetermined quantity of ash was observed in the ash clean-out room under the smokestack in the basement of Building No. 3. Interview sources indicated that the boilers in Building No. 3 had been previously operated with coal and fuel oil. The constituents of this ash may include heavy metals and sulfates.

Terracon recommends that the nature of the ash constituents be characterized and then properly disposed.

- **Previous Use:** According to historical resources, Building No. 6 at the subject site has been previously used as a clothing impregnation plant, with two (2) former storage tanks, a former recovery tank, a former cooling tower, and two (2) former pump houses located Buildings No. 6 and 9. According to a "Completion Report Covering the Construction and Completion of the Clothing Renovating Plant at the Kansas City Quartermaster Depot for Chemical Warfare Service Project P-7-7047-41-2," dated 1941, the purpose of Building No. 6 was to impregnate uniforms with "Impregnate I" to make them resistant to gas attacks. The chemical composition of "Impregnate I" was not determined. According to information provided by an historic preservation consultant, the tanks located next to Building No. 6 were used to store chemicals used in the impregnating process. It was undetermined if these tanks were above-ground or below ground. According to a Manual of Operations and Procedures, Renovation Division, (Records of the Office of the Quartermaster General, Kansas City, Missouri, Chemical Warfare Renovation Division), dated unknown, the following chemicals were used for the chemical impregnation of clothing: iodine, sulfuric acid, formic acid, acetic acid, sodium thiosulfate, acetylene tetrachloride; potassium dichromate, phenolphthalein, and monochlorobenzene. The chemical constituents of other solutions such as Z₁, Z₂, Z₃, Z₄, and CC-2 were not readily available in the Manual.

Additionally, a former paint house, Building No. 5, was located on the subject site south of Building No. 4. It is assumed that paint was stored and used in this former structure.

The nature of operations of these past uses of the subject site may have impacted the subject site from spills or releases and could be a potential environmental concern. Intrusive sampling and testing would be required to further evaluate potential impacts from historic land uses. If undertaken, sample analyses should include, but not limited to, volatile organic compounds (VOCs), semi-VOCs, metals, and pH.

6.3 Other Issues

- **Firing Range:** A firing range was observed in the basement of Building No. 9. A few spent bullet casings were observed in the area of the firing range. Past use of the firing range may have included the use of lead bullets. Spent bullets are collected in a sand-filled area at the foot of the firing range. This area of the subject site may have been impacted by the accumulation of lead.
- **Agricultural Usage:** According to historical fire insurance maps, previous use of the subject site, prior to the construction of the current-day buildings, was as a cultivated field. The historic use of the site may have included the possible use of pesticides and/or herbicides. Most currently-used agricultural chemicals do not persist for extended periods of time if applied appropriately. However, some agricultural chemicals persist, especially if spilled or misapplied. Although GSA should be aware of these historic agricultural practices, indications of spillage or vegetative distress were not observed during the visual survey, and additional environmental assessment does not appear to be warranted at this time.

7.0 GENERAL COMMENTS

Terracon has performed a Phase I Environmental Site Assessment in general compliance with the scope and limitations of the consensus document known as ASTM E 1527-97 and the General Services Administration Work Order No. 7. This report is intended as a limited assessment of the environmental conditions associated with the subject site and has been prepared in accordance with generally accepted local assessment practices. No warranties, express or implied, are intended or made. The limitations of this assessment should be recognized as GSA formulates conclusions on the environmental risks associated with this property.

This assessment relied primarily upon readily available information, verbal and written reports of others, and visual observations. It was not designed to provide chemical analysis or data regarding the condition of the soil and/or groundwater within the area of study. Terracon does not warrant the work of regulatory agencies or other third parties supplying information which may have been used during the preparation of this report.

This report has been prepared for the exclusive use of GSA. No other individual or entity may rely on this report without written permission from Terracon. If written permission is provided, the recipient agrees to be bound by the same contractual terms and conditions agreed to by Terracon and GSA.

8.0 REFERENCES

Documents

American Society for Testing and Materials (ASTM) E 1527; 1997.

Missouri Department of Transportation, Aerial Photographs; 1961, 1966, 1969, 1973, 1983, and 1989.

Terraserver internet access, Aerial Photographs; 1990.

U.S. Department of Agriculture Soil Conservation Service. Soil Survey of Jackson County, Missouri. September, 1984.

Thompson, Thomas, L., 1995, The Stratigraphic Succession in Missouri (Revised 1995), MDNR Division of Geology and Land Survey, Volume 40 (2nd Series) Revised, 188p., 42 figs., and 1 tbl.

United States Geologic Survey (USGS) 7.5 Minute Quadrangle Topographic Maps.

VISTA Information Solutions, Inc. Environmental Database Search Report; ID# 312601901 dated May 20, 1999.

Sanborn Fire Insurance Maps, 1909, 1940, and 1963.

Interviewees

Ms. Sheryl Hoffman, MDNR.

Mr. John Crawshaw, MDNR Kansas City Regional Office.

Mr. Tom Fast, MDNR.

Mr. Art Gendreau, GSA.

Mr. Ted Correll, GSA.

Ms. Valerie Garrett, MDNR.

Mr. Scott Huxstep, MDNR.

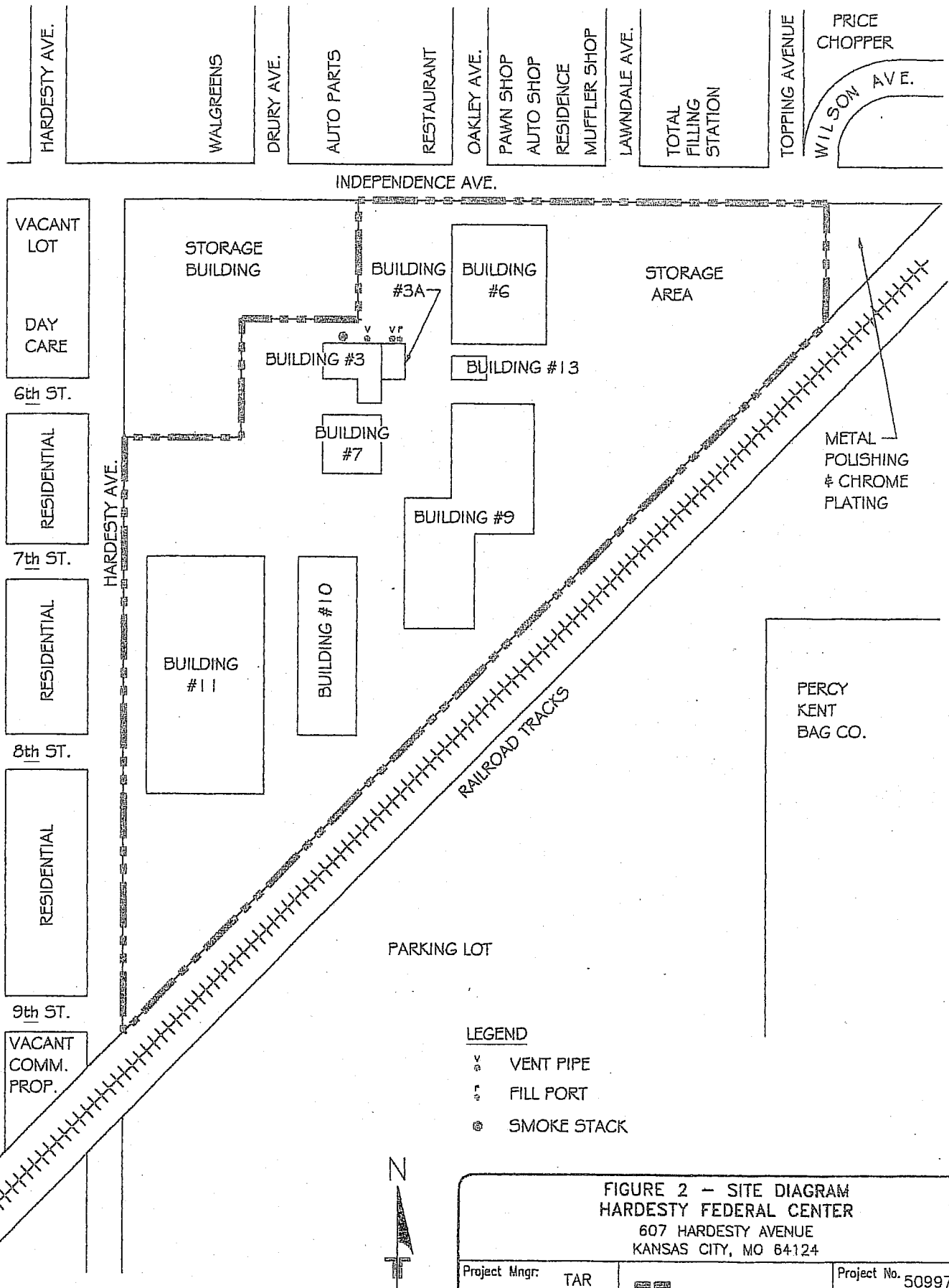
Ms. Deon Wolfenbarger, Historic Preservation Consultant.

Ms. Dennis Beck, MDNR Kansas City Regional Office.

Mr. Rourke Holzschuh, MDNR.

APPENDIX A:

FIGURES



LEGEND

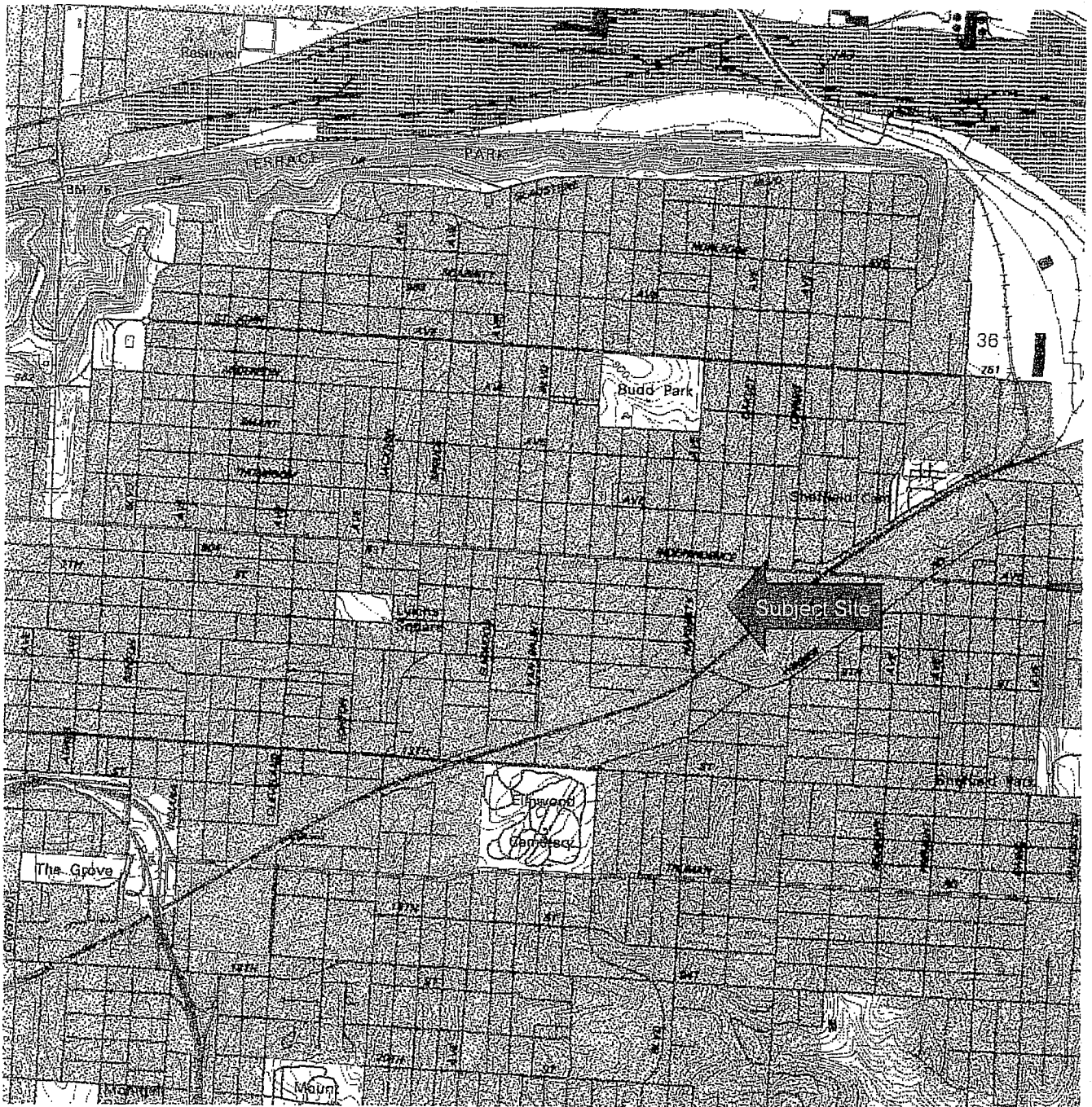
- V VENT PIPE
- F FILL PORT
- S SMOKE STACK

FIGURE 2 - SITE DIAGRAM
HARDESTY FEDERAL CENTER
 607 HARDESTY AVENUE
 KANSAS CITY, MO 64124

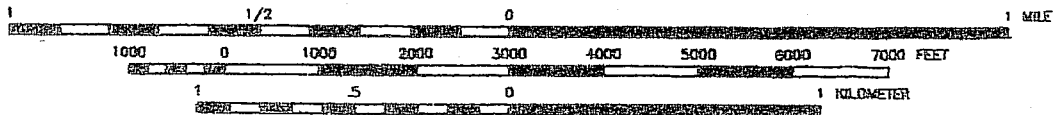
Project Mngr:	TAR	Project No.	50997737
Designed By:	TAR	Scale:	NOT TO SCALE
Checked By:		Date:	5-26-99
Approved By:		Drawn By:	TKW
File Name:	QA737F2		
		Figure No.	2

DIAGRAM IS FOR GENERAL LOCATION ONLY.
 AND IS NOT INTENDED FOR CONSTRUCTION PURPOSES

RD TKW 5-26-99



SCALE 1:24,000



CONTOUR INTERVAL 10 FEET

U.S.G.S. 7.5 MINUTE SERIES TOPOGRAPHIC MAP

STATE of MISSOURI QUADRANGLE

KANSAS CITY, MO-KS

1991

FIGURE 1 - SITE VICINITY MAP
HARDESTY FEDERAL CENTER
607 HARDESTY AVENUE
KANSAS CITY, MO

Proj. Mngr: TAR

Designed by: TAR

Drawn by: TAR

Terracon

15950 College Blvd
Lenexa, Kansas 66219

Proj. # 50997737

FN: Figure1.ppt

Date: 6-2-99

APPENDIX B:
PHOTOGRAPHIC RECORD

1

1

111

Project No. 50997737

Photo #1

Photographer: TAR

Date: 05/18/99

Direction: northeast
(facing)

Description: Building No. 3.



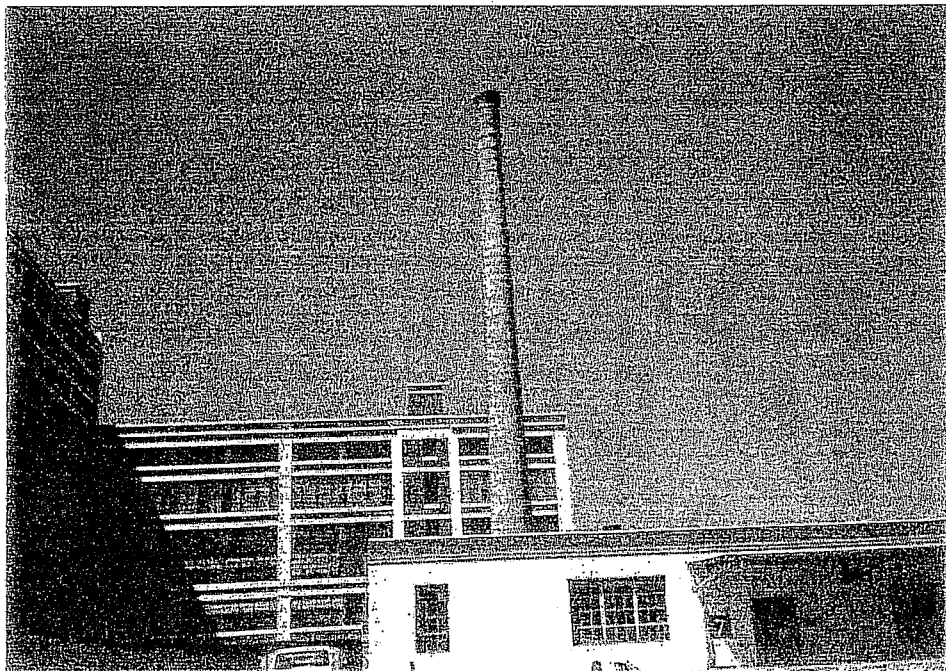
Photo #2

Photographer: TAR

Date: 05/18/99

Direction: north
(facing)

Description: Building No. 7
and smokestack.



1

2

3

Project No. 50997737

Photo #3

Photographer: TAR

Date: 05/18/99

Direction: NA
(facing)

Description: Interior of
Building No. 7.



Photo #4

Photographer: TAR

Date: 05/18/99

Direction: NA
(facing)

Description: Ash clean-out
under the smokestack,
accessible from Building
No. 3.



Project No. 50997737

Photo #5

Photographer: TAR

Date: 05/18/99

Direction: NA
(facing)

Description: Boilers in
Building No. 3.

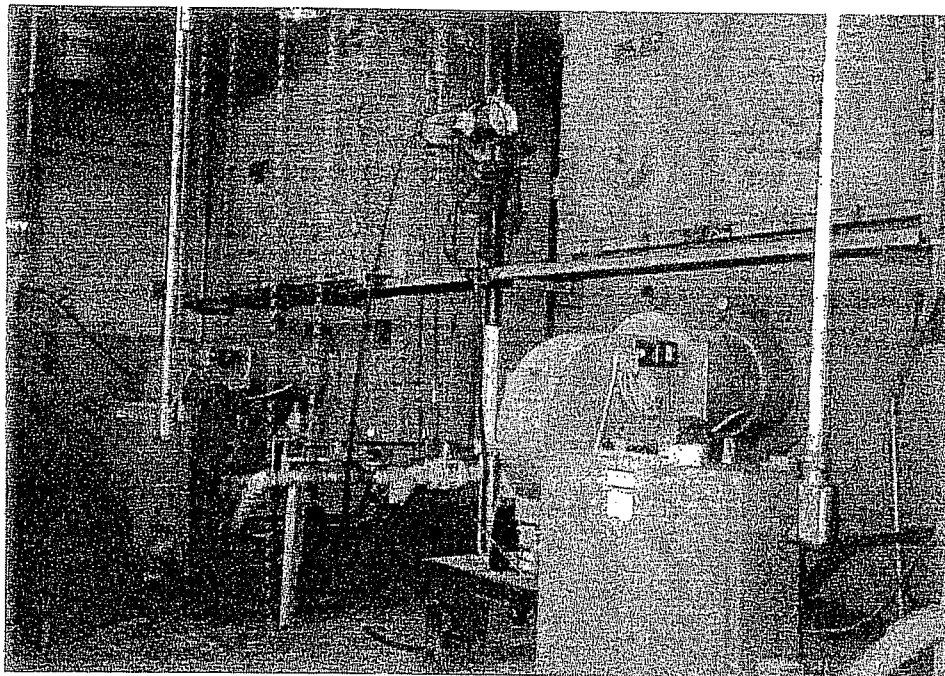


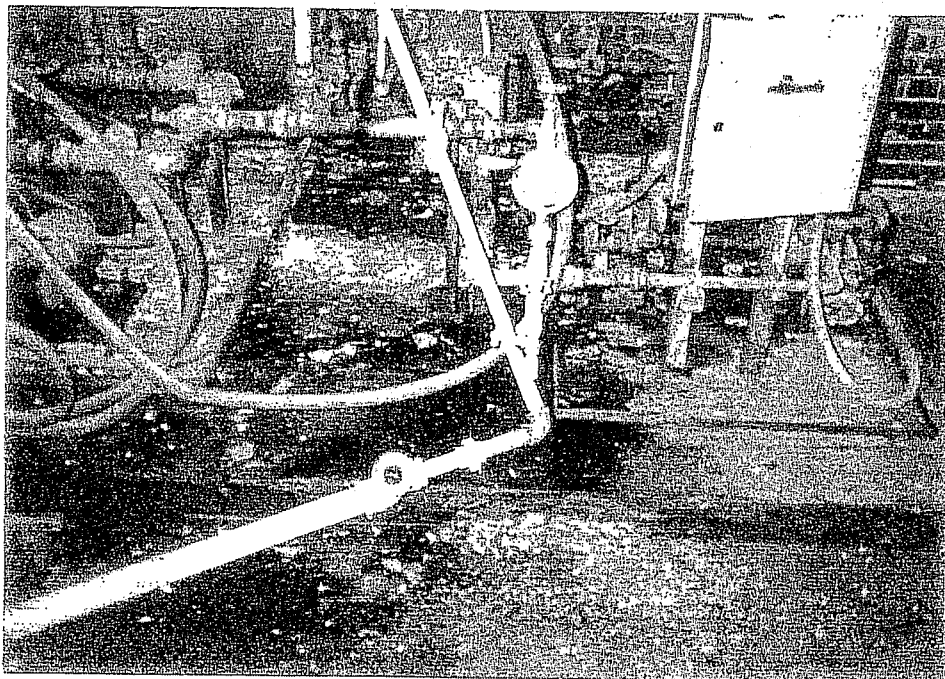
Photo #6

Photographer: TAR

Date: 05/18/99

Direction: NA
(facing)

Description: Oil pump in
Building No. 3.



Project No. 50997737

Photo #7

Photographer: TAR

Date: 05/18/99

Direction: northeast
(facing)

Description: Buildings No.
13 and 6.

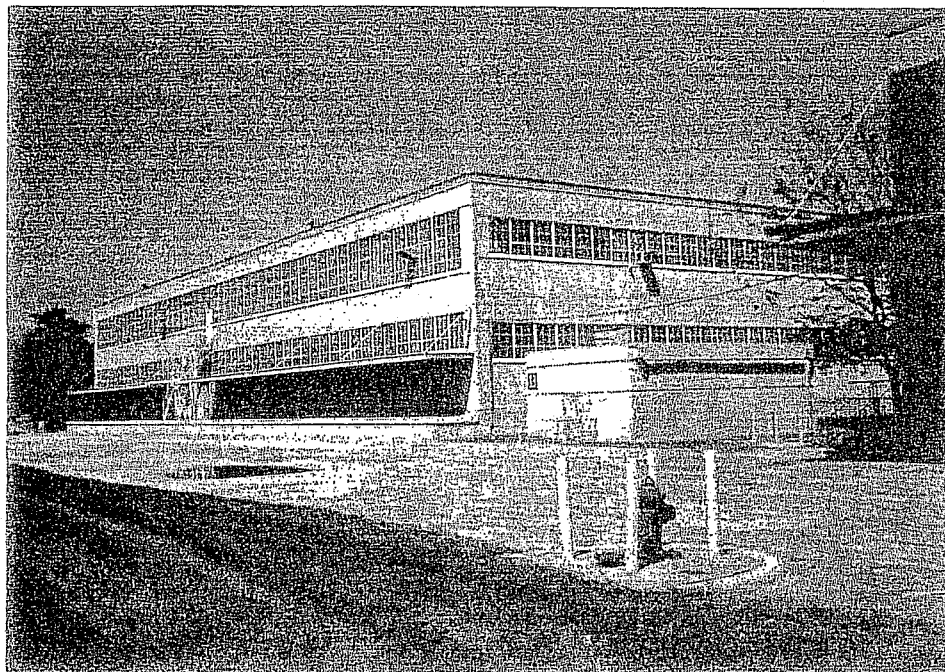


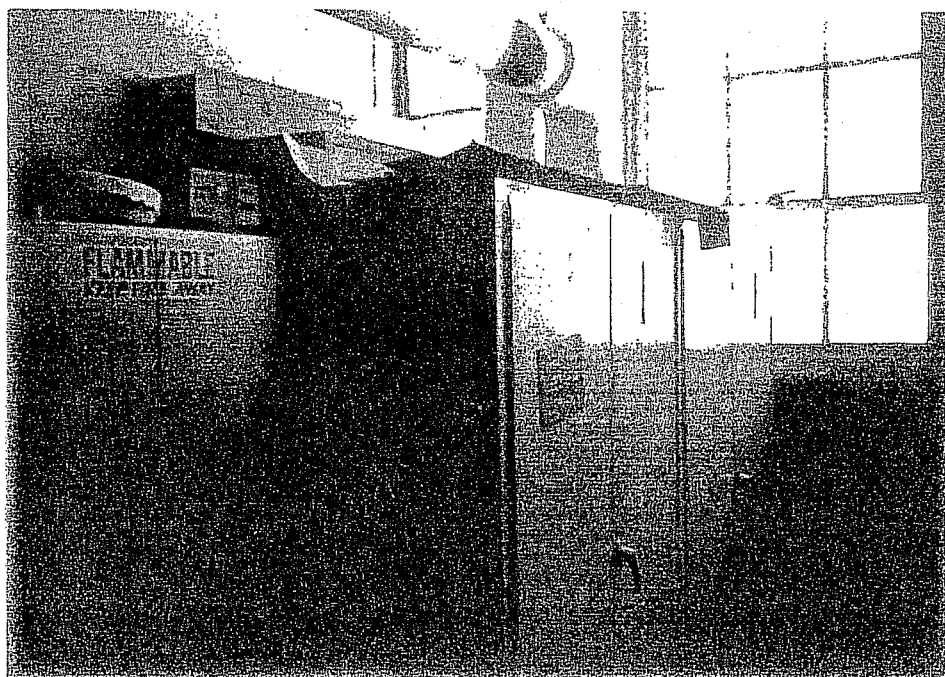
Photo #8

Photographer: TAR

Date: 05/18/99

Direction: NA
(facing)

Description: Flammable
storage cabinets in Building
No. 6.



Project No. 50997737

Photo #9

Photographer: TAR

Date: 05/18/99

Direction: NA
(facing)

Description: Paint exhaust
hood in Building No. 6.

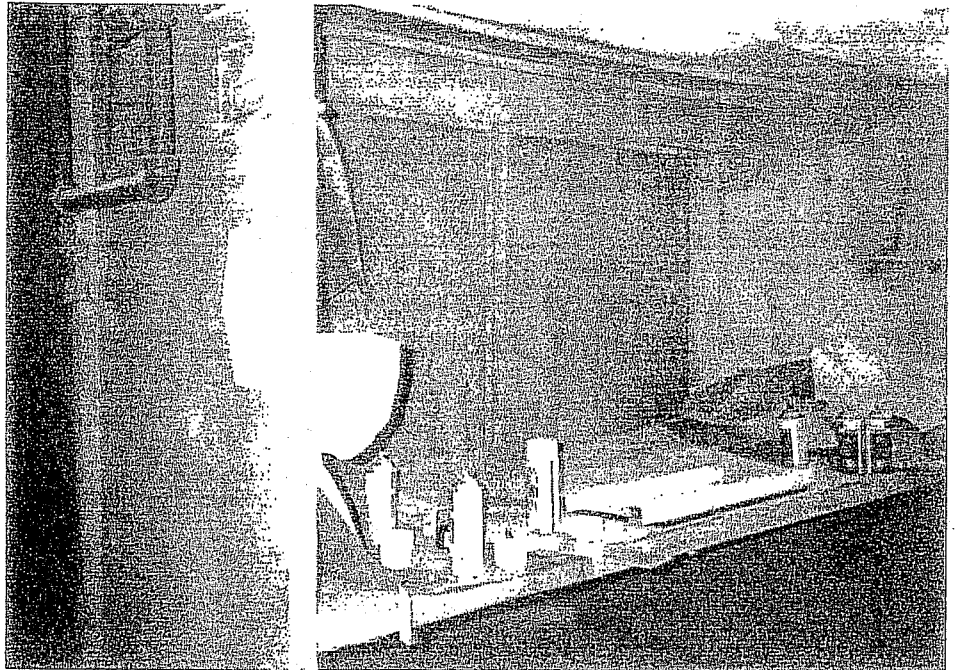


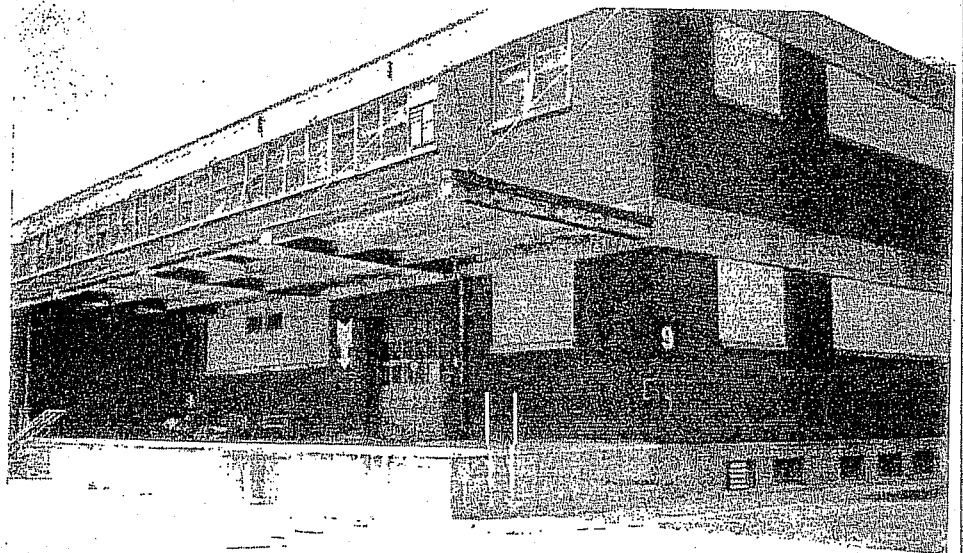
Photo #10

Photographer: TAR

Date: 05/18/99

Direction: southwest
(facing)

Description: Building No. 9.



Project No. 50997737

Photo #11

Photographer: TAR

Date: 05/18/99

Direction: NA
(facing)

Description: Firing range in
Building No. 9.

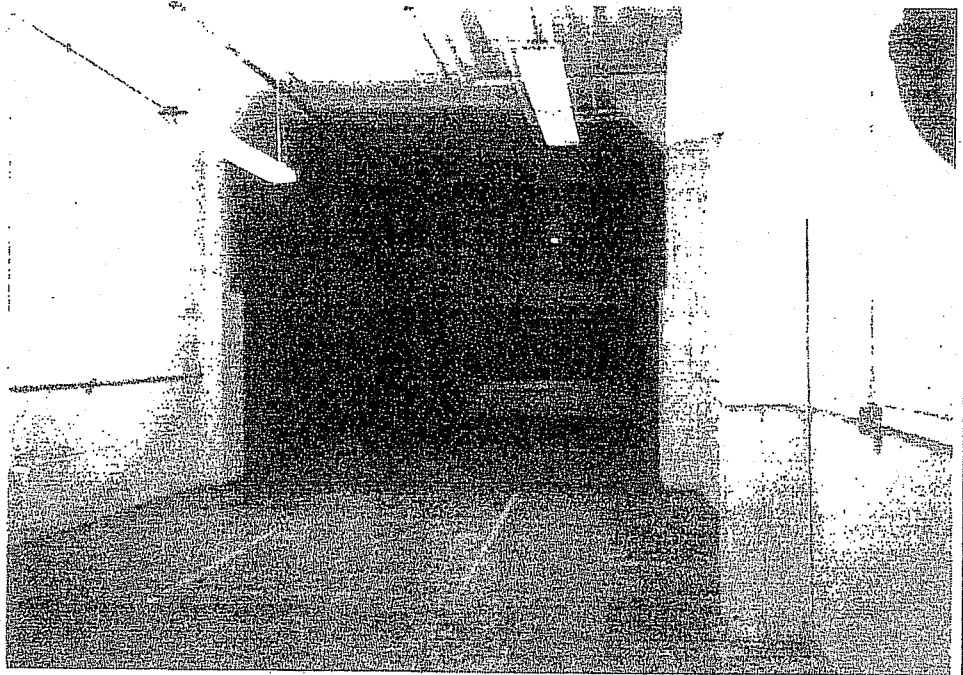


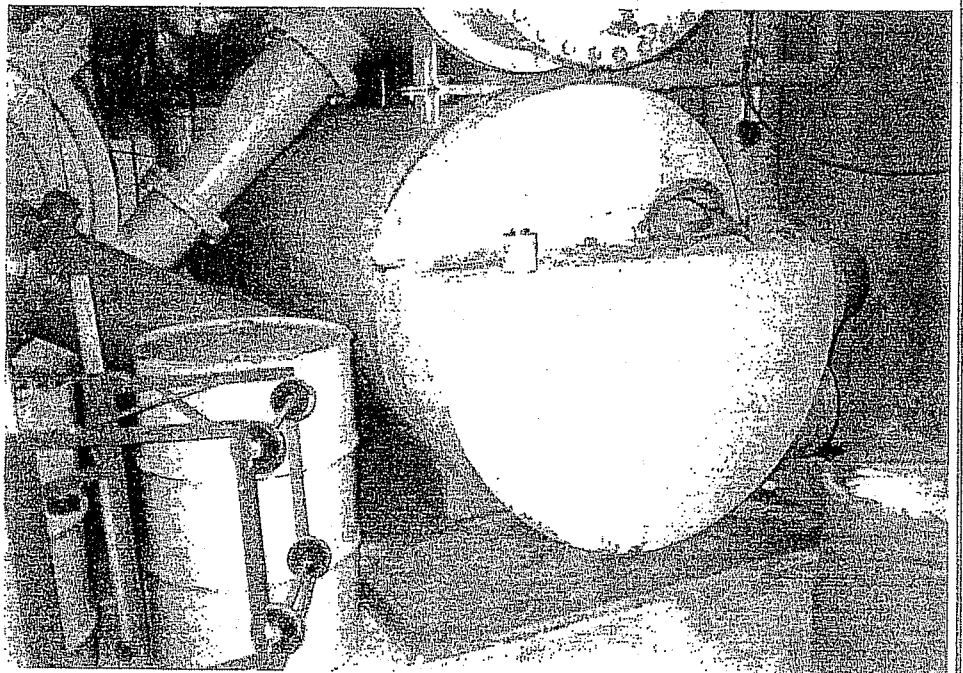
Photo #12

Photographer: TAR

Date: 05/18/99

Direction: NA
(facing)

Description: Mechanical
room in Building No. 9.



Project No. 50997737

Photo #13

Photographer: TAR

Date: 05/18/99

Direction: southwest
(facing)

Description: Building No.
10.

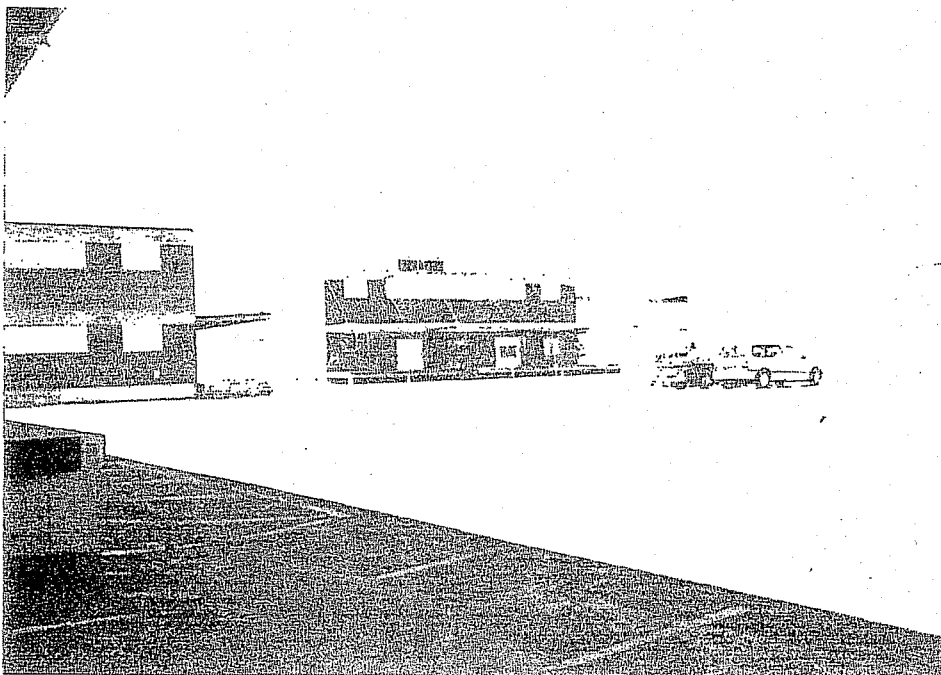


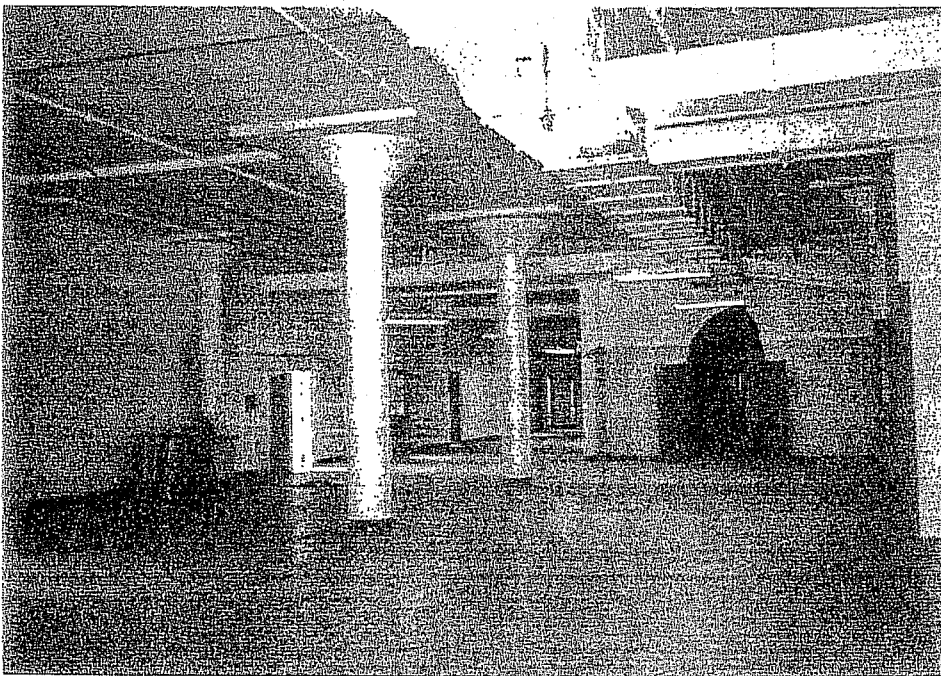
Photo #14

Photographer: TAR

Date: 05/18/99

Direction: NA
(facing)

Description: Interior of
Building No. 10.



Project No. 50997737

Photo #15

Photographer: TAR

Date: 05/18/99

Direction: NA
(facing)

Description: PCB-
contaminated transformer in
Building No. 10.

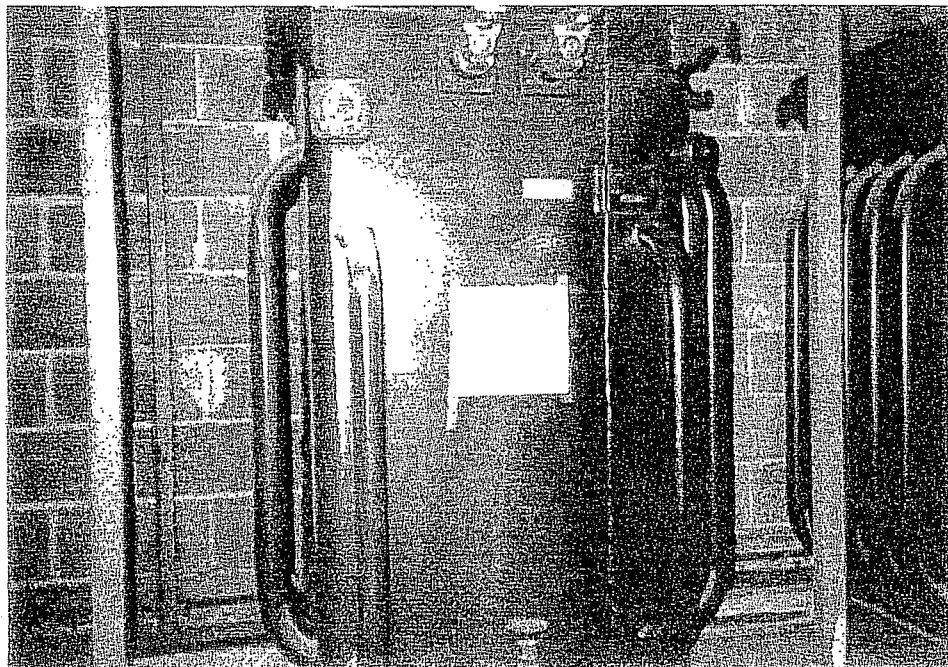


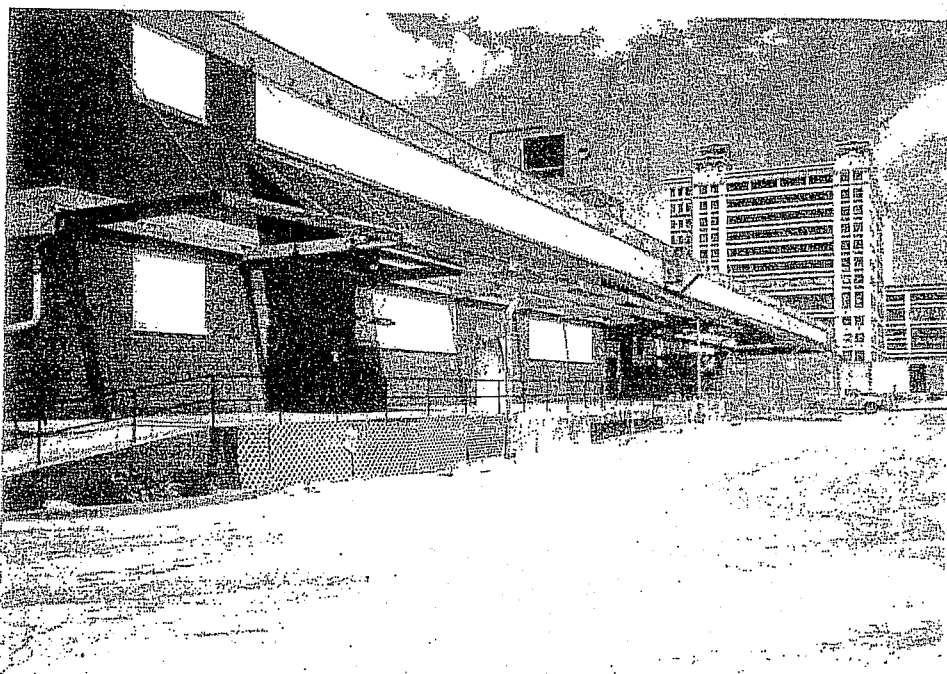
Photo #16

Photographer: TAR

Date: 05/18/99

Direction: northwest
(facing)

Description: Building No.
11.



Project No. 50997737

Photo #17

Photographer: TAR

Date: 05/18/99

Direction: NA
(facing)

Description: Shop in
Building No. 11.

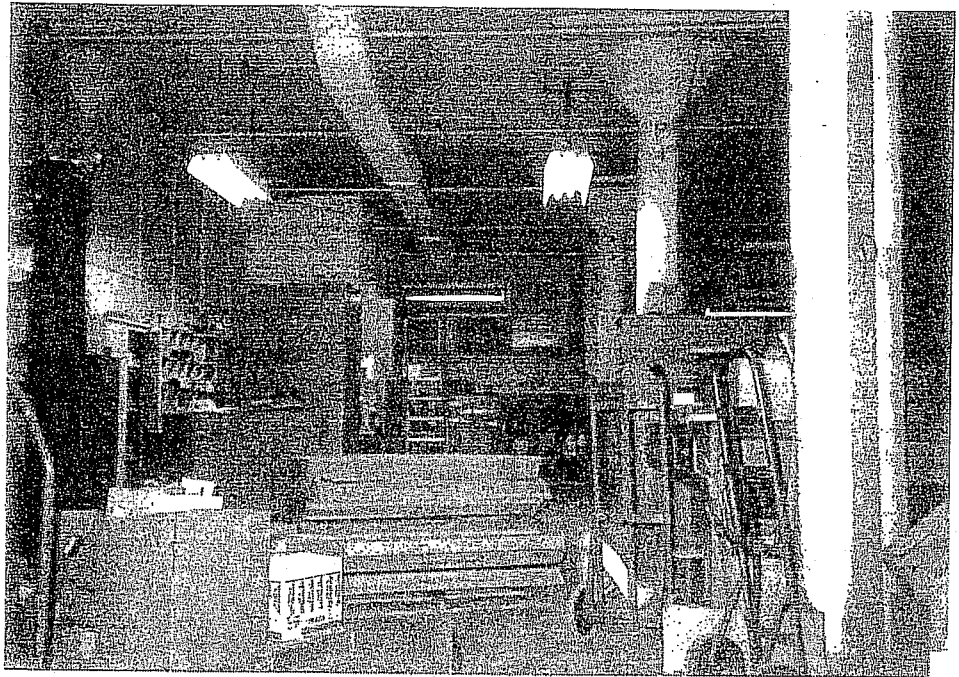


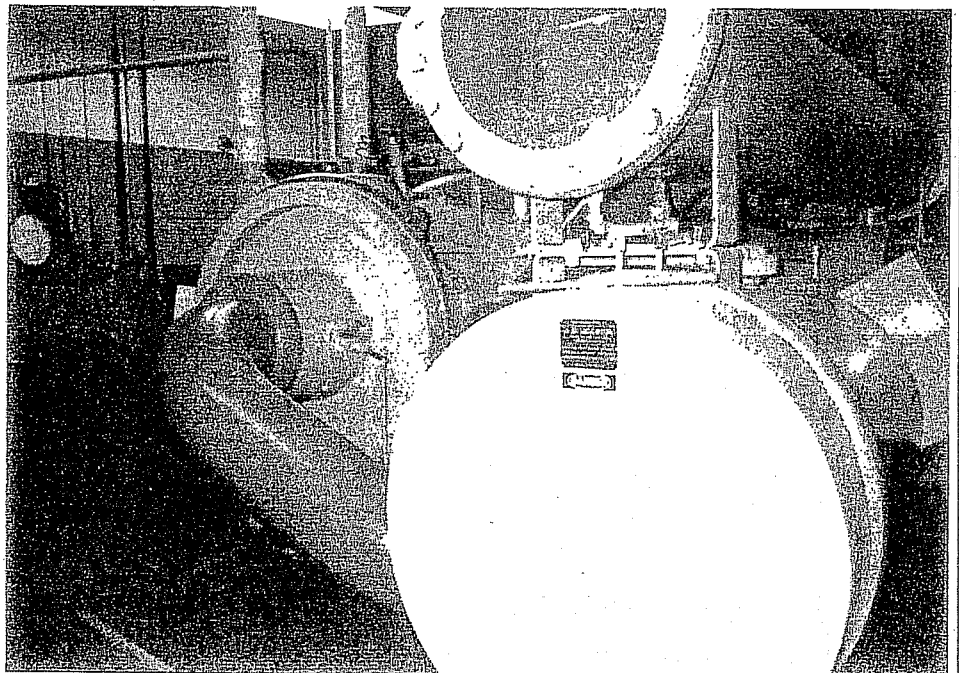
Photo #18

Photographer: TAR

Date: 05/18/99

Direction: NA
(facing)

Description: Mechanical
room in Building No. 11.



Project No. 50997737

Photo #19

Photographer: TAR

Date: 05/18/99

Direction: NA
(facing)

Description: Remains of a
chemical feed pump in the
photo processing room in
Building No. 11.

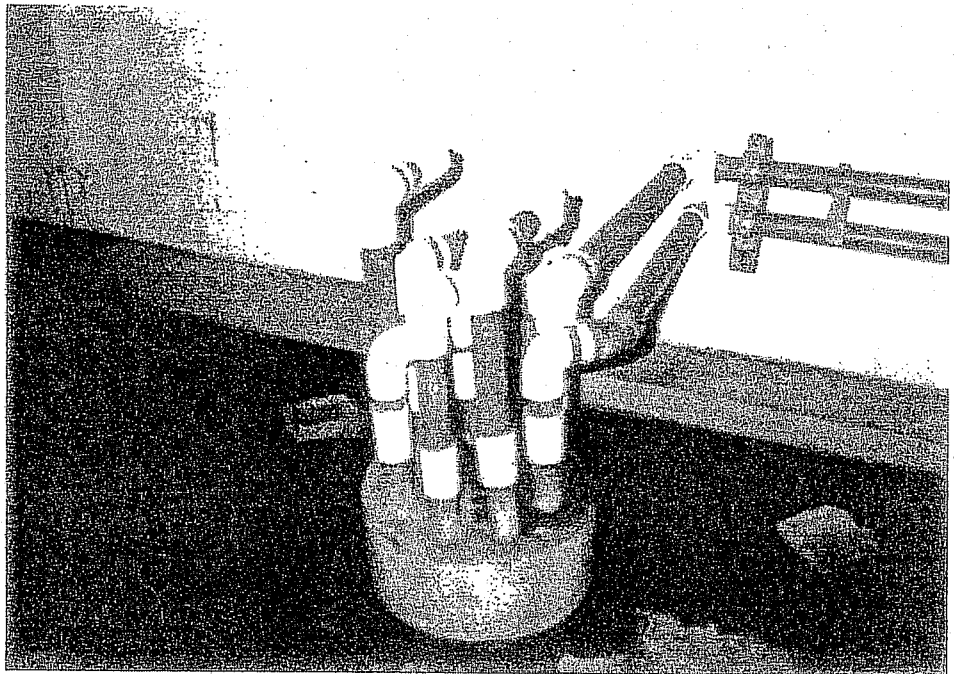


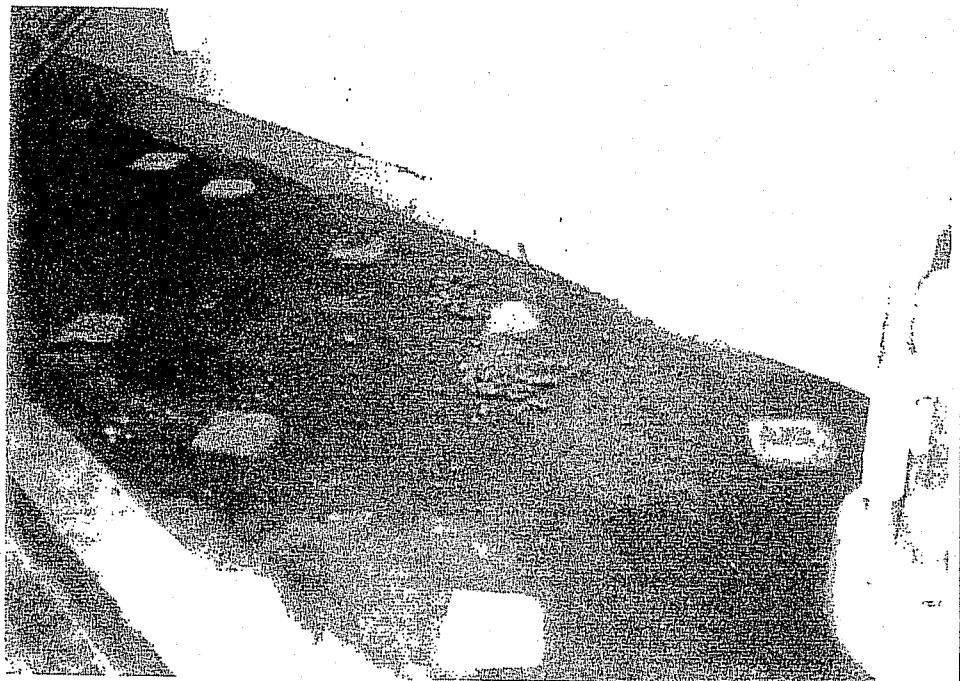
Photo #20

Photographer: TAR

Date: 05/18/99

Direction: NA
(facing)

Description: Basin in the
photo processing room in
Building No. 11.



Project No. 50997737

Photo #21

Photographer: TAR

Date: 05/18/99

Direction: southwest
(facing)

Description: Storage area
on the northeast portion of
the subject site.

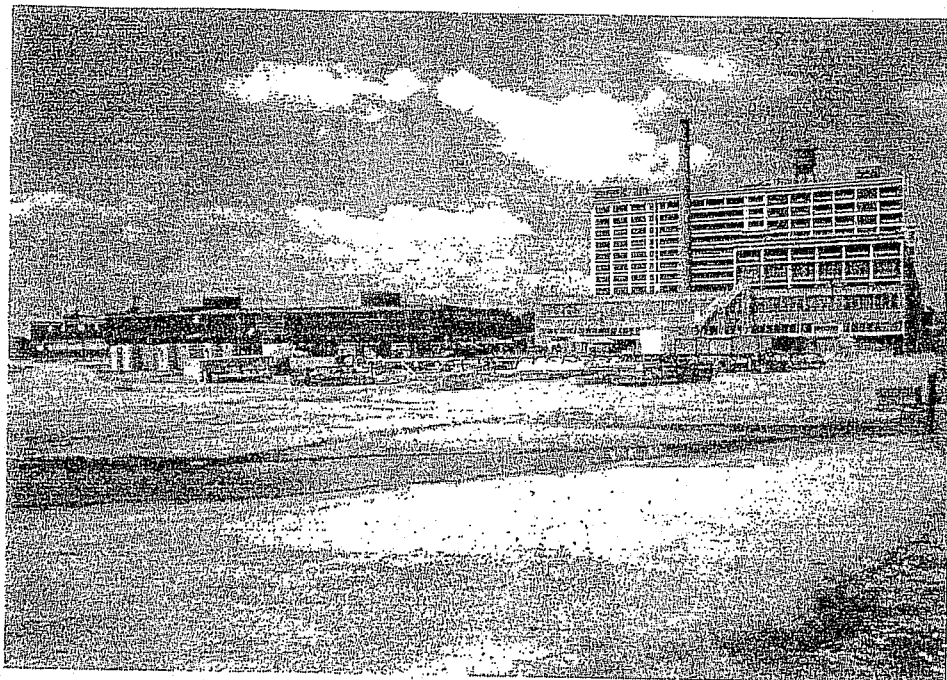


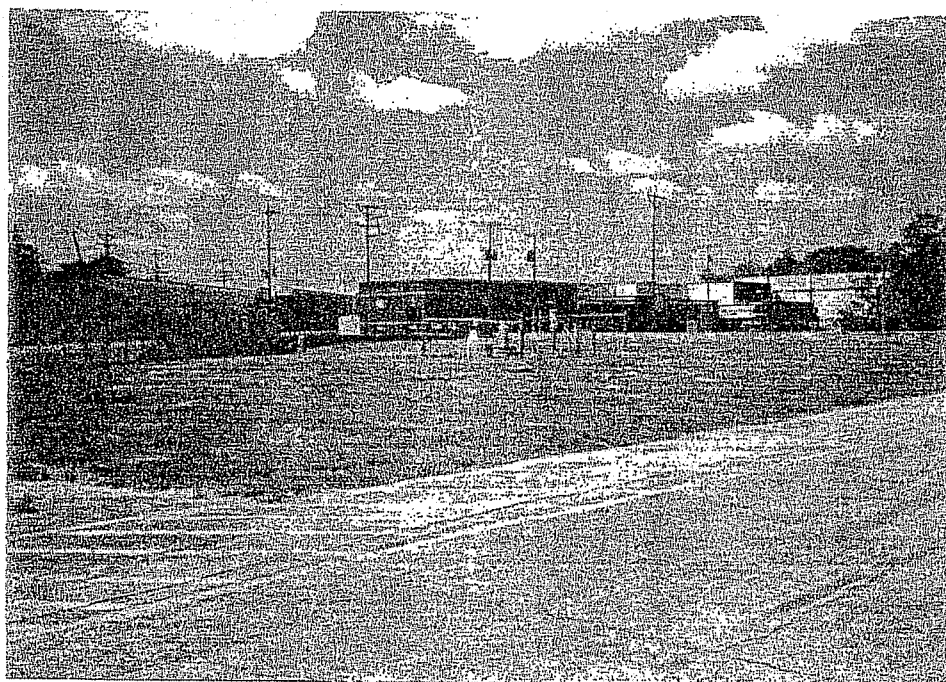
Photo #22

Photographer: TAR

Date: 05/18/99

Direction: southwest
(facing)

Description: Grassy area
containing weather
monitoring equipment on
the southwest portion of the
subject site.



Project No. 50997737

Photo #23

Photographer: TAR

Date: 05/18/99

Direction: east
(facing)

Description: Grassy area
between Buildings No. 6
and 9.

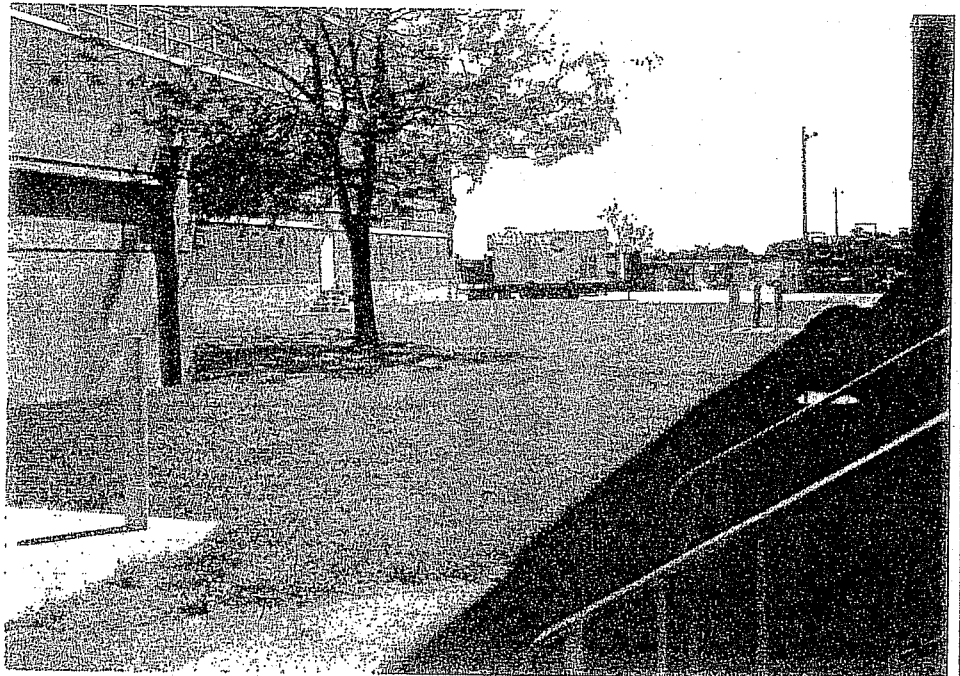


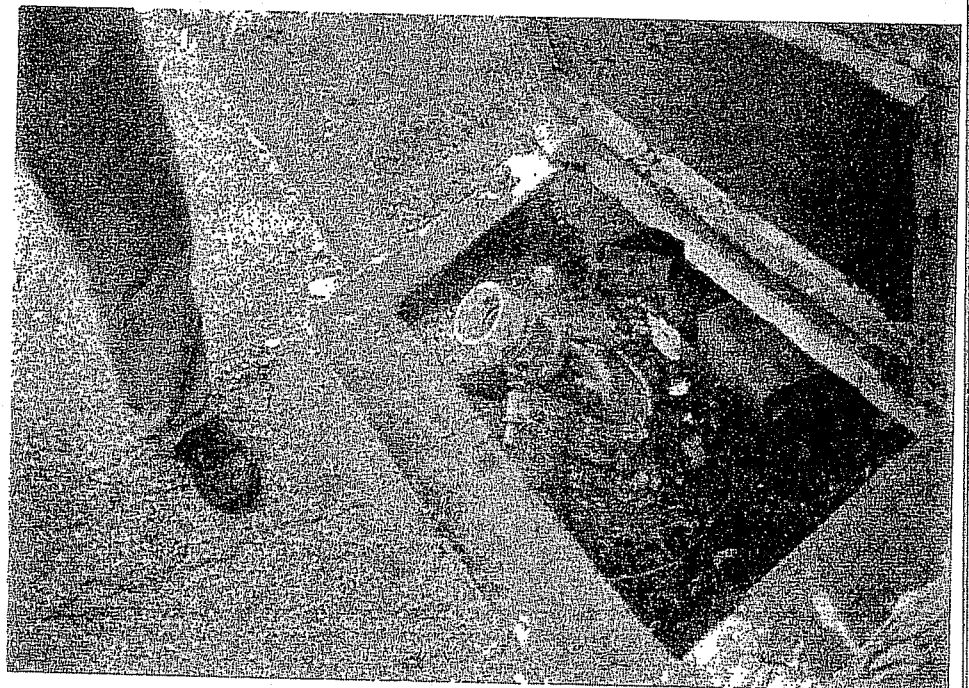
Photo #24

Photographer: TAR

Date: 05/18/99

Direction: NA
(facing)

Description: Fill port behind
Building No. 3A.



Project No. 50997737

Photo #25

Photographer: TAR

Date: 05/18/99

Direction: south
(facing)

Description: Vent pipe
behind Building No. 3A.

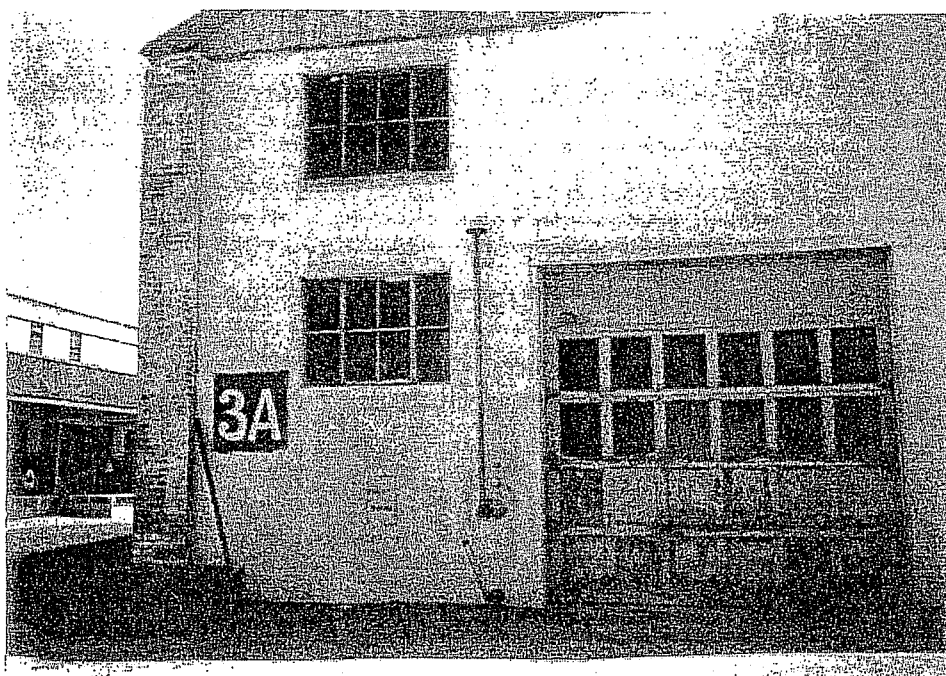


Photo #26

Photographer: TAR

Date: 05/18/99

Direction: northwest
(facing)

Description: Depression in
the parking area where a
former UST was previously
located, east of Building
No. 3A.



Project No. 50997737

Photo #27

Photographer: TAR

Date: 05/18/99

Direction: northwest
(facing)

Description: Property to the
northwest of the subject
site.



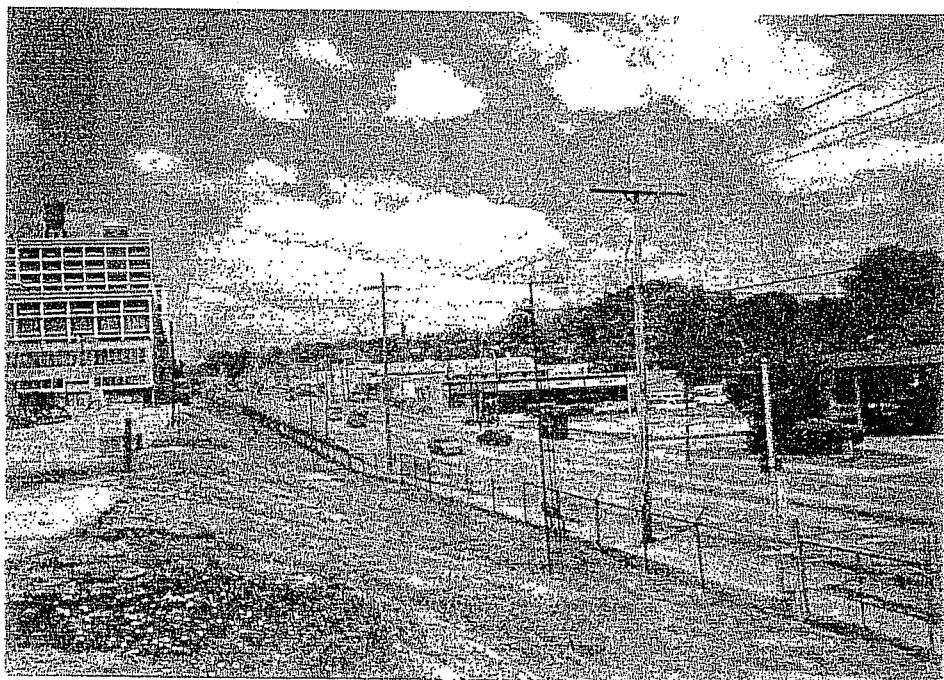
Photo #28

Photographer: TAR

Date: 05/18/99

Direction: west
(facing)

Description: Properties to
the north of the subject
site.



Project No. 50997737

Photo #29

Photographer: TAR

Date: 05/18/99

Direction: southwest
(facing)

Description: Properties to
the southwest of the subject
site.

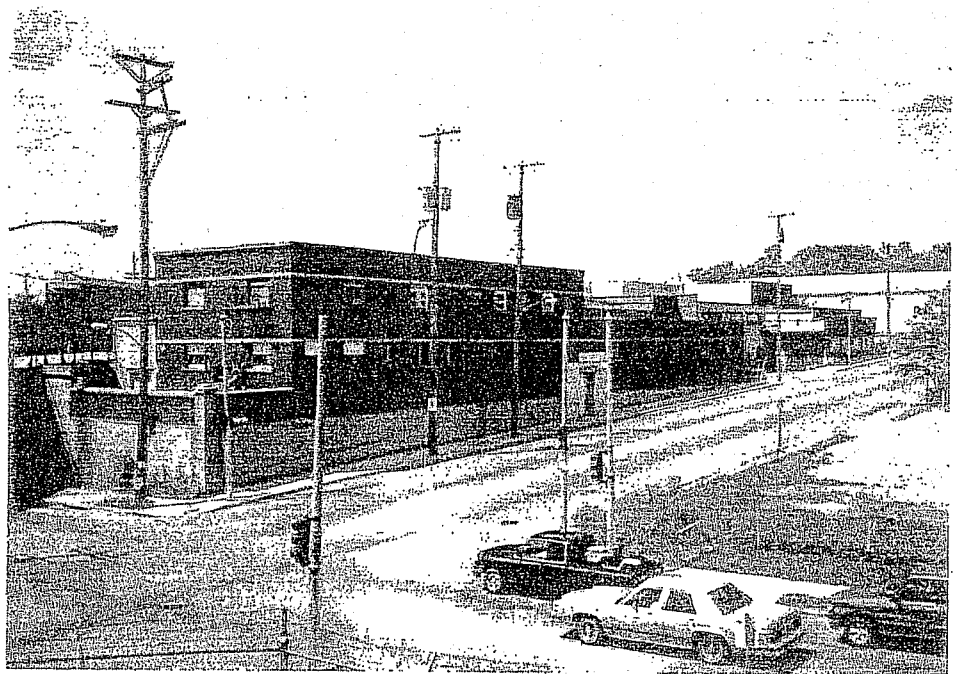


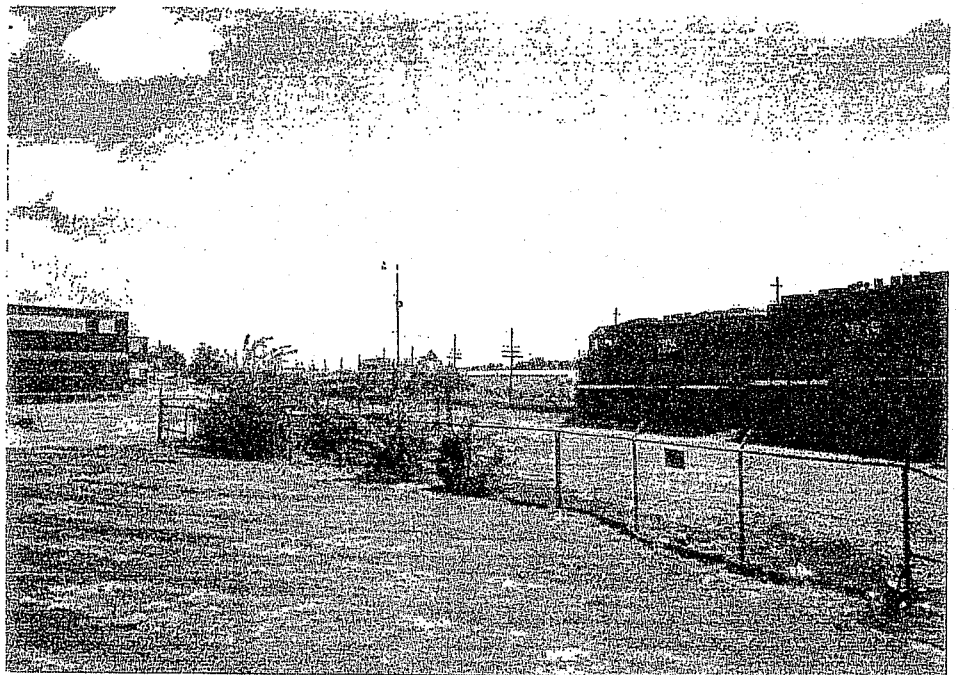
Photo #30

Photographer: TAR

Date: 05/18/99

Direction: northeast
(facing)

Description: Property to the
south and east of the
subject site.



Project No. 50997737

Photo #31

Photographer: TAR

Date: 05/18/99

Direction: east
(facing)

Description: Properties to
the east of the subject site.

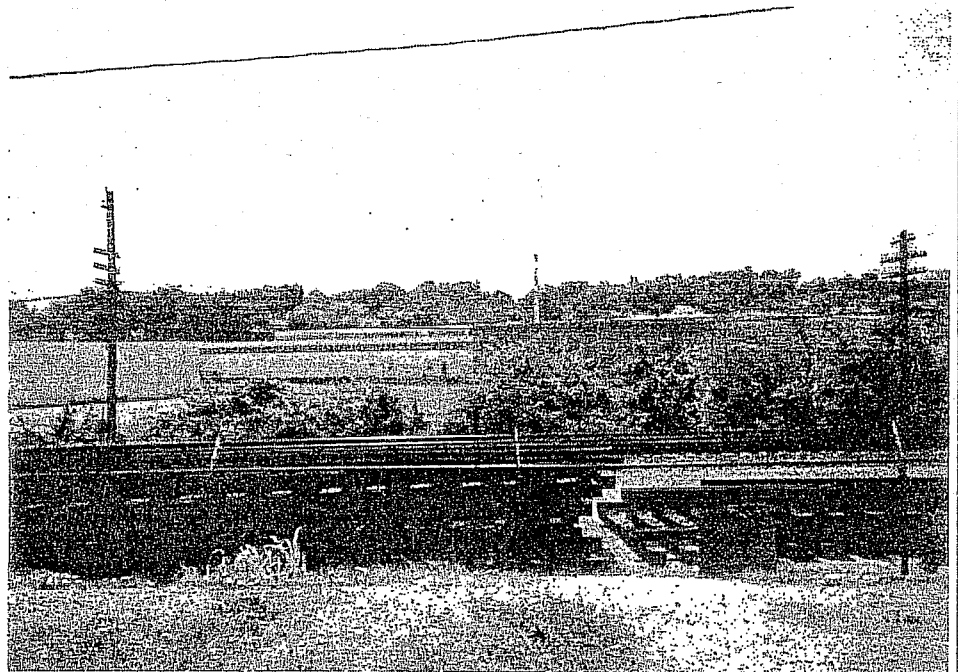


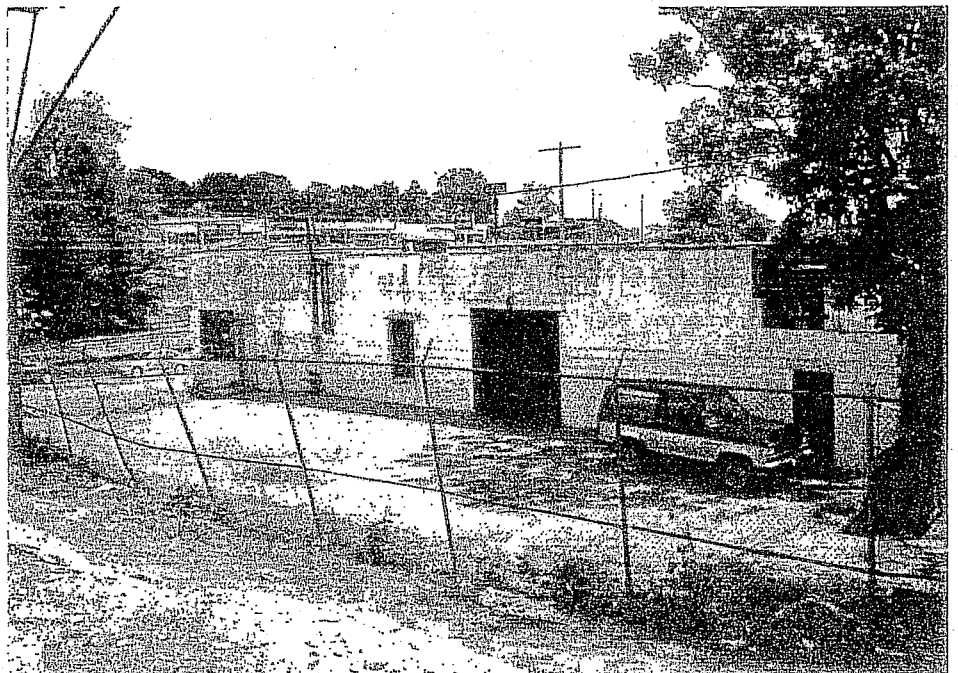
Photo #32

Photographer: TAR

Date: 05/18/99

Direction: northeast
(facing)

Description: Property to the
east of the subject site.



Project No. 50997737

Photo #33

Photographer: TAR

Date: 05/18/99

Direction: north
(facing)

Description: Properties to
the west of the subject site.

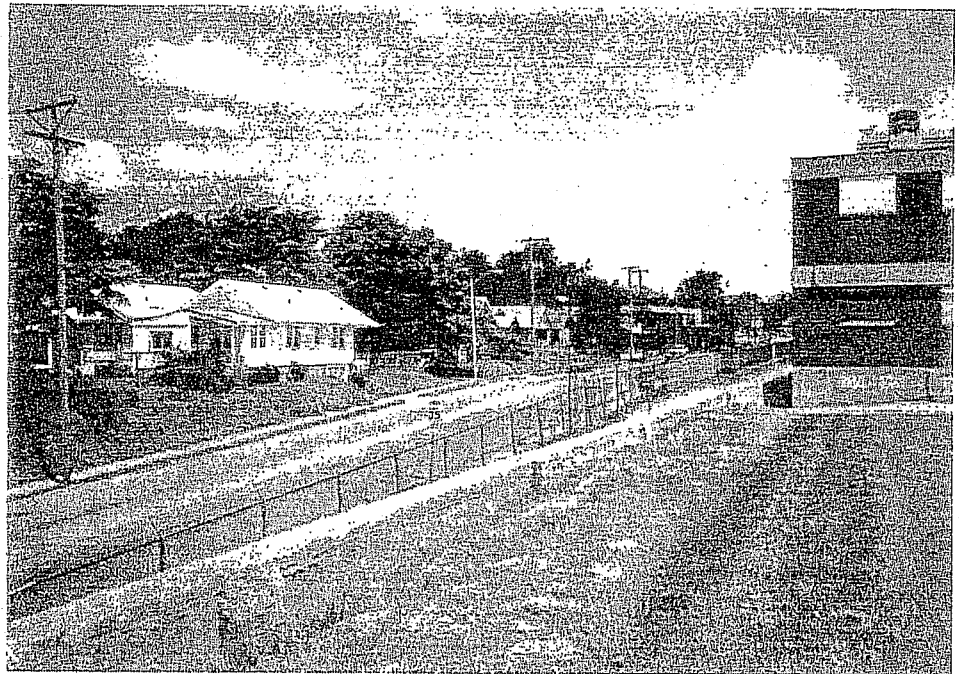


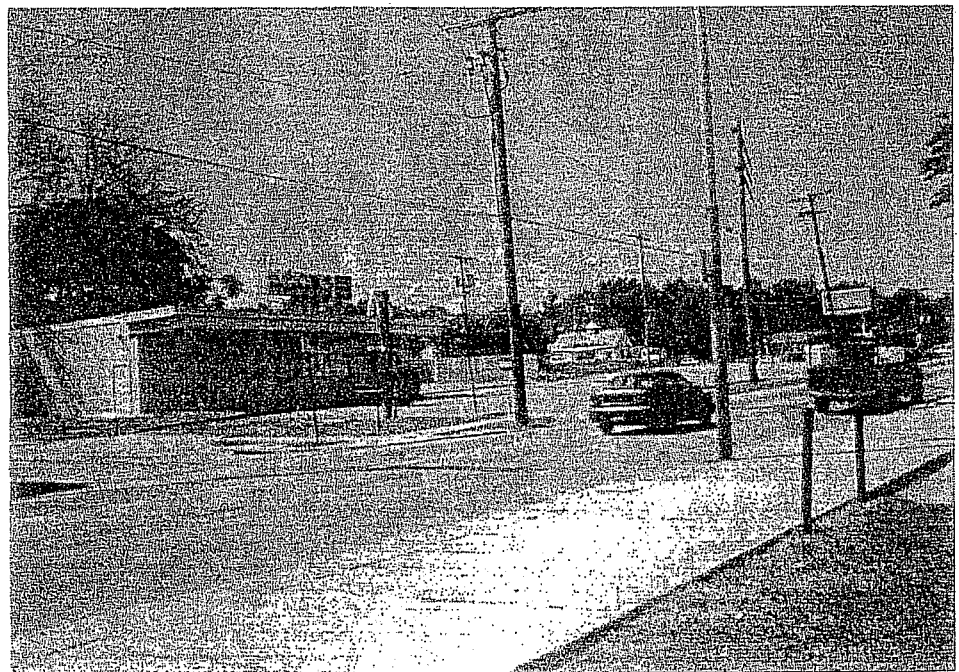
Photo #34

Photographer: TAR

Date: 05/18/99

Direction: northwest
(facing)

Description: Properties to
the west of the subject site.



APPENDIX C:
TITLE INFORMATION

Milliken & Michaels
Information Services

3850 N. Causeway Blvd., 3rd Floor
Metairie, Louisiana 70002

June 9, 1999

Ms. Tracie Ragland
Terracon Environmental
15950 College Boulevard
Lenexa, KS 66219

Subject: Project No: 50997737
Hardesty Federal Center
607 Hardesty Avenue
Kansas City, Missouri

Dear Ms. Ragland:

Public records on the subject real property identified above revealed the following information effective to March 8, 1999:

PROPERTY REPORT

ASSESSMENT

Location: Jackson County
Land/Description: Parcel of Land
Parcel No. 28-210-01-01

DEEDS

1
Grantee(s): United States of America
(Buyer)
Grantor(s): National Holding Company
(Seller)

Milliken & Michaels, Inc.

Mailing Address: P. O. Box 7768, Metairie, Louisiana 70010
(National Toll Free) 1-800-755-0435 (Louisiana) 504-837-6320 FAX # 1-504-835-2872

Conveys: Parcel of Land

Date Executed: November 26, 1940
Date Recorded: November 26, 1940
DBV/PG: 3473/92

NOTE: Copy attached as Exhibit "A".

2
Grantee(s): National Holding Company
(Buyer)

Grantor(s): National Improvement Company
(Seller)

Conveys: Parcel of Land

Date Executed: December 14, 1935
Date Recorded: December 31, 1939
DBV/PG: 3228/601

ENVIRONMENTAL LIENS

None found of record at Jackson County, Missouri Public Records Office.

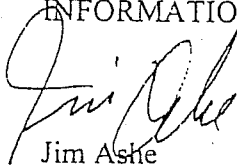
LEGAL DESCRIPTION

Legal Description included on Exhibit "A"

We hope this information assists in your decision making process. If we can be of additional assistance, please do not hesitate to contact us at your convenience.

Cordially,

MILLIKEN & MICHAELS
INFORMATION SERVICES



Jim Ashe
Title Analyst

JA/ktp
cc: David Ruh

M&M File #383648

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EXHIBIT A

B 3473 92

1007808

THIS INSTRUMENT made on the 11th day of November, One Thousand Nine Hundred and Forty, by and between NATIONAL HOLDING COMPANY, a corporation duly organized under the laws of the State of Missouri, of the County of Jackson, State of Missouri, party of the first part, and the UNITED STATES OF AMERICA and its assigns, party of the second part,

WITNESSETH: That said party of the first part, in consideration of other good and valuable considerations and the sum of One Hundred (\$100.) Dollars, to it in hand paid by the said party of the second part, the receipt of which is hereby acknowledged, does by these presents, GRANT, BARGAIN AND SELL, CONVEY AND CONFIRM, unto the said party of the second part, its successors and assigns, the following described lots, tracts, or parcels of land, lying, being and situated in the County of Jackson and State of Missouri, to-wit:

ALL the land lying between Independence Avenue on the North, Mardesty Avenue on the West, the Kansas City Terminal Right-of-way on the Southeast, and the central line of Topping Avenue (as originally located) on the East, being approximately 21.52 acres as shown on the plat hereto attached, commonly known as the National Bellas Hess property and more particularly described in the legal description of said property herein, to-wit:

ALL that part of the Northeast quarter of the Northeast quarter of Section 2, Township 49, Range 11, in Kansas City, Jackson County, Missouri, lying north and west of a strip of ground 75 ft. wide, extending in a northeasterly and southeasterly direction across said quarter (1/4) quarter (1/4) section, being the right of way of property conveyed to Kansas City Belt Railway Company by deed dated October 20, 1892, and recorded in Book 260 at page 258, in the office of the Recorder of Deeds of Jackson County, Missouri, at Kansas City; and also lying north of a strip of ground 100 ft. wide, cutting and partly upon the Southeast corner of said quarter (1/4) quarter (1/4) section (and north and west of right of way of said Kansas City Belt Railway Company above described), being the right of way of Kansas City and Independence Rapid Transit Railway Company, afterward Kansas City Cable Railway Company, and being property conveyed to Kansas City Cable Railway Company by deed dated October 6, 1894, and recorded in Book E 572 page 51, in the office of the Recorder of Deeds, of Jackson

County, Missouri, at Kansas City; except the following portions thereof, to-wit: (a) a strip of ground thirty (30) feet wide off of the west side thereof, being the east half of Hardesty Avenue, a street in Kansas City, Missouri; (b) a strip of ground forty (40) feet wide off of the north side thereof; being the south half of Independence Avenue, a street in Kansas City, Missouri; (c) a strip of ground thirty (30) feet wide off the east side thereof, being the west half of Topping Avenue, a street in Kansas City, Missouri as originally established; being the same land heretofore conveyed to NATIONAL IMPROVEMENT COMPANY by Trackage Realty Company by deed dated June 24, 1912 filed for record, and duly recorded in the Office of the Recorder of Deeds of Jackson County, Missouri, at Kansas City, in Book Series B 1936, Page 124 on June 25, 1919, and by said National Improvement Company to party of the first part by deed dated December 14, 1915 filed for record and duly recorded in the Office of the Recorder of Deeds of Jackson County, Missouri at Kansas City, in Book Series B 1222, page 401 on December 31, 1915.

TOGETHER with the buildings thereon, improvements thereto, and easements and rights of way, if any, whether by grant, prescription, estoppel, use or otherwise, now held, and/or used or enjoyed by the part of the first part in respect of and/or in connection with the described premises.

AND LAND IS CONVEYED SUBJECT TO:

- (1) Certain easements, and rights to construct and maintain a conduit and embankments, as granted by National Bank of Commerce to Kansas City Belt Railway Company by written instrument dated October 27, 1902 filed for record May 5, 1903 and recorded in Book B 660 at Page 211 in the Office of the Recorder of Deeds of Jackson County, Missouri, at Kansas City;
- (2) A right of way for sewer purposes as conveyed by Trackage Realty Company to Kansas City, Missouri, by deed dated July 31, 1917 filed for record November 3, 1917 and recorded in Book B 1541 at Page 175 in the Office of the Recorder of Deeds of Jackson County, Missouri, at Kansas City;
- (3) An easement to Kansas City Power and Light Company to erect and maintain poles and wires for electrical current over and across a part of the premises herein conveyed, as set forth in the instrument conveying said easement filed for record April 21, 1932 under Recorder's Document No. 444-312 and recorded in Book B 1353 at Page 156 in the Office of the Recorder of Deeds, Jackson County, Missouri, at Kansas City;
- (4) All easements, if any, for railroad switch tracks and spur tracks as now established on said premises;
- (5) Such state of facts as an accurate survey may disclose;
- (6) The following rights of possession:
 - (a) Right of National Dallas Moss Inc., lessee, under lease from the grantor, dated December 17, 1935, to retain possession of the granted premises, excepting floors 1, 2, 10 and 11 of the larger building and one floor of the smaller building on said premises, until January 31, 1941.

(b) Right of Baker-Lockwood Manufacturing Co., Inc., lessee, under sub-lease from National Bellas Hess, Inc., dated November 1, 1939, to retain possession of demised premises in said sub-lease until August 1, 1941.

(c) Right of Goodyear Tire and Rubber Company, Inc., lessee, under sub-lease from National Bellas Hess, Inc., dated April 5, 1935, to retain possession of the demised premises in said sub-lease until six months from date of recordation of within instrument.

That the party of the first part hereby covenants and agrees with the party of the second part to cause the aforesaid lease and sublease to be terminated and all rights of the lessee and the sublessee, respectively thereunder in or to any of the granted premises to be terminated on the respective dates and times therefor above provided.

TO HAVE AND TO HOLD the premises aforesaid, with all and singular the rights, privileges, appurtenances and immunities thereto belonging, or in any wise appertaining unto the said party of the second part, and unto its successors and assigns forever, the said National Holding Company hereby covenanting that it is lawfully seized of an indefeasible estate in fee in the premises herein conveyed; that it has good right to convey the same; that the said premises are free and clear from all encumbrances whatsoever, except as above stated; and that National Holding Company will warrant and defend the title of the said premises unto the said party of the second part, and unto its successors and assigns forever, against the lawful claims and demands of all persons whatsoever, except as stated herein, and accepting zoning ordinances, if any, now in force and applicable.

The said party of the first part, in consideration of the premises, does by these presents remise, release and forever quit claim unto said party of the second part, its successors and assigns, a strip of ground thirty (30) feet wide extending along the east side of and adjoining the tract of land hereinbefore conveyed, and expressly excepted therefrom under subdivision (c) as hereinbefore in the description set forth, said strip of land

thirty (30) feet wide being the west half of Topping Avenue as originally established.

TO HAVE AND TO HOLD the same with all the rights, immunities, privileges and appurtenances thereto belonging unto said party of the second part and unto its successors and assigns forever, so that neither the said party of the first part nor its successors nor any other person or persons for it or in its name or behalf shall or will hereafter claim or do and any right or title to the aforesaid premises or any part thereof, but they and each of them shall by these presents be excluded and forever barred, without any recourse to or warranty of any kind whatsoever by the part of the first part, however, and subject to the right of way for sewer purposes over and across the said thirty (30) feet formerly in Topping Avenue as reserved to Kansas City in the ordinance for the vacation of said avenue.

The National Bellas Hess Inc. for the purpose of agreeing to the provisions of this instrument for the termination of the rights of itself and its subsidiaries in the aforesaid premises under the leases and subleases above referred to hereby joins in this instrument, and agrees to vacate the premises as aforesaid and to do all things and take all action necessary to terminate the subleases hereinabove mentioned as above provided.

IN WITNESS WHEREOF, the said party of the first part and the National Bellas Hess Inc. have each caused these presents to be signed by their respective Presidents and attested by their respective Secretaries and their corporate seals to be

047372 96

hereto attached, the day and year first above written,

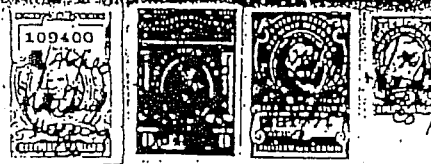
ATTEST: *E. G. Siebert*
Secretary, E. G. Siebert
BY: *Edward L. Elliott*
President, Edward L. Elliott



ATTEST: *E. G. Siebert*
Secretary, E. G. Siebert
BY: *Edward L. Elliott*
President, Edward L. Elliott



(1570-1004)



I have been thinking of you very much lately and wondering how you are getting on. I hope you are well and happy. I have been very busy lately but I will try to write to you more often.

I have been thinking of you very much lately and wondering how you are getting on. I hope you are well and happy. I have been very busy lately but I will try to write to you more often.

Yours truly,
John Doe

January 1913

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APPENDIX D:

ENVIRONMENTAL DATABASE INFORMATION

SITE ASSESSMENT PLUS REPORT

PROPERTY INFORMATION	CLIENT INFORMATION
Project Name/Ref #: 50997737 Hardesty Federal Center 607 Hardesty Ave. Kansas City, MO 64124 Latitude/Longitude: (39.103770, 94.517097)	Tracie Ragland Terracon 15950 College Boulevard Lenexa, KS 66219

Site Distribution Summary			within 1/8 mile	1/8 to 1/4 mile	1/4 to 1/2 mile	1/2 to 1 mile
Agency / Database - Type of Records						
A) Databases searched to 1 mile:						
US EPA	NPL	National Priority List	0	0	0	0
US EPA	CORRACTS	RCRA Corrective Actions	0	0	0	1
STATE	SPL	State equivalent priority list	0	0	0	1
B) Databases searched to 1/2 mile:						
US EPA	CERCLIS / NFRAP	Sites currently or formerly under review by US EPA	0	0	1	.
US EPA	TSD	RCRA permitted treatment, storage, disposal facilities	0	0	0	.
STATE REG CO	LUST	Leaking Underground Storage Tanks	1	0	3	.
STATE/REG/CO	SWLF	Permitted as solid waste landfills, incinerators, or transfer stations	0	1	0	.
USGS/STATE	WATER WELLS	Federal and State Drinking Water Sources	0	0	0	.
C) Databases searched to 1/4 mile:						
US EPA	RCRA Viol	RCRA violations/enforcement actions	0	1	.	.
US EPA	TRIS	Toxic Release Inventory database	0	0	.	.
STATE	UST/AST	Registered underground or aboveground storage tanks	3	2	.	.
D) Databases searched to 1/8 mile:						
US EPA	ERNS	Emergency Response Notification System of spills	2	.	.	.
US EPA	GNRTR	RCRA registered small or large generators of hazardous waste	3	.	.	.



LIMITATION OF LIABILITY

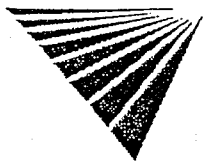
Customer proceeds at its own risk in choosing to rely on VISTA services, in whole or in part, prior to proceeding with any transaction. VISTA cannot be an insurer of the accuracy of the information, errors occurring in conversion of data, or for customer's use of data. VISTA and its affiliated companies, officers, agents, employees and independent contractors cannot be held liable for accuracy, storage, delivery, loss or expense suffered by customer resulting directly or indirectly from any information provided by VISTA.

NOTES



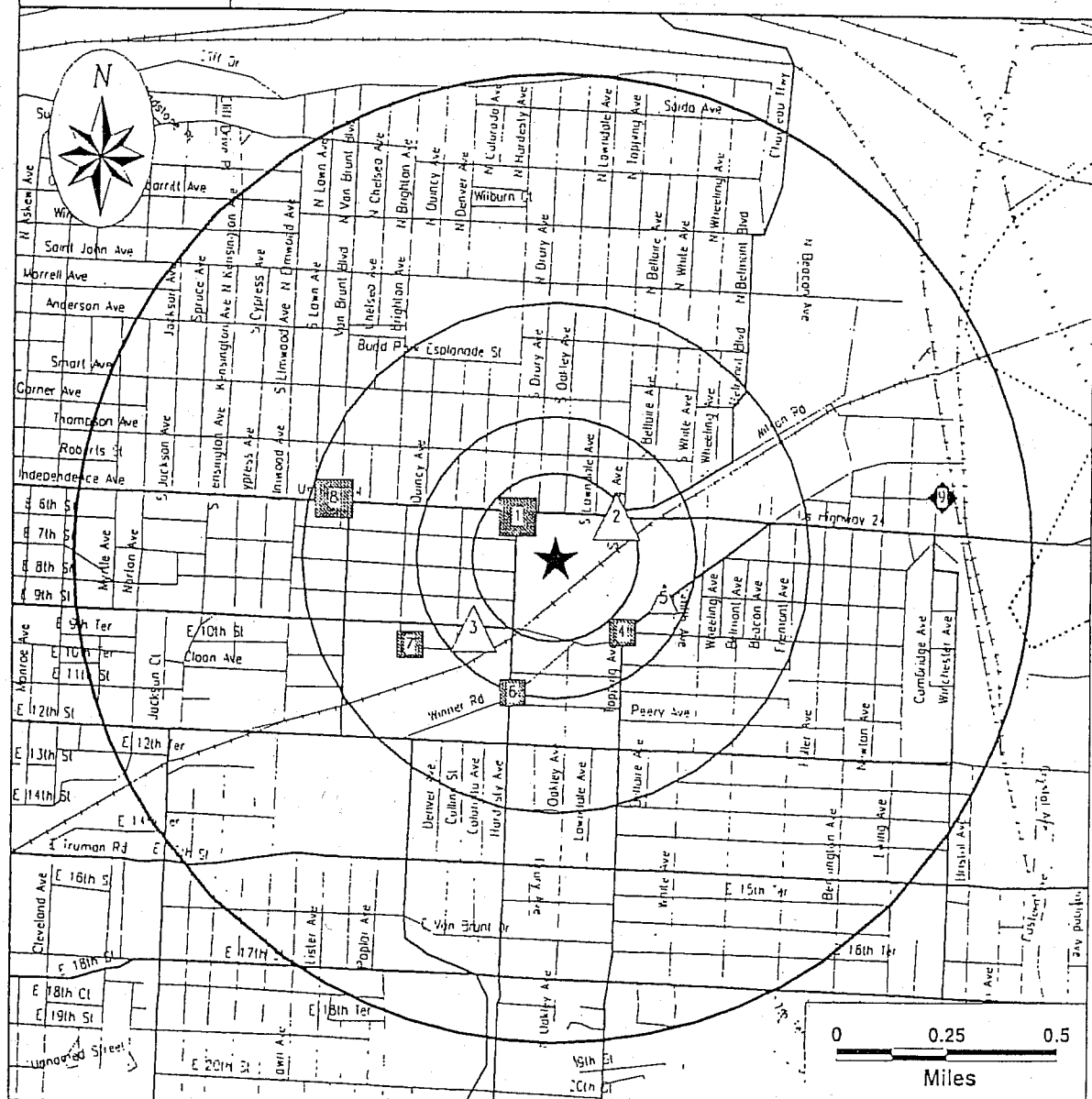
Version 2.6.1

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SITE ASSESSMENT PLUS REPORT

Map of Sites within One Mile



Subject Site	Category: Databases Searched to:	A 1 mi.	B 1/2 mi.	C 1/4 mi.	D 1/8 mi.
		Single Sites Multiple Sites	Single Sites Multiple Sites	Single Sites Multiple Sites	Single Sites Multiple Sites
	Highways and Major Roads	NPL, SPL, CORRACTS (TSD)	CERCLIS, NFRAP, TSD, LUST, SWLF, SCL	RCRA VIOL, TRIS, UST	ERNS, GENERATORS
	Roads				
	Railroads				
	Rivers or Water Bodies				
	Utilities				

If additional databases are listed in the cover page of the report they are also displayed on this map. The map symbol used corresponds to the database category letter A,B,C,D.

For More Information Call VISTA Information Solutions, Inc. at 1 - 800 - 767 - 0403

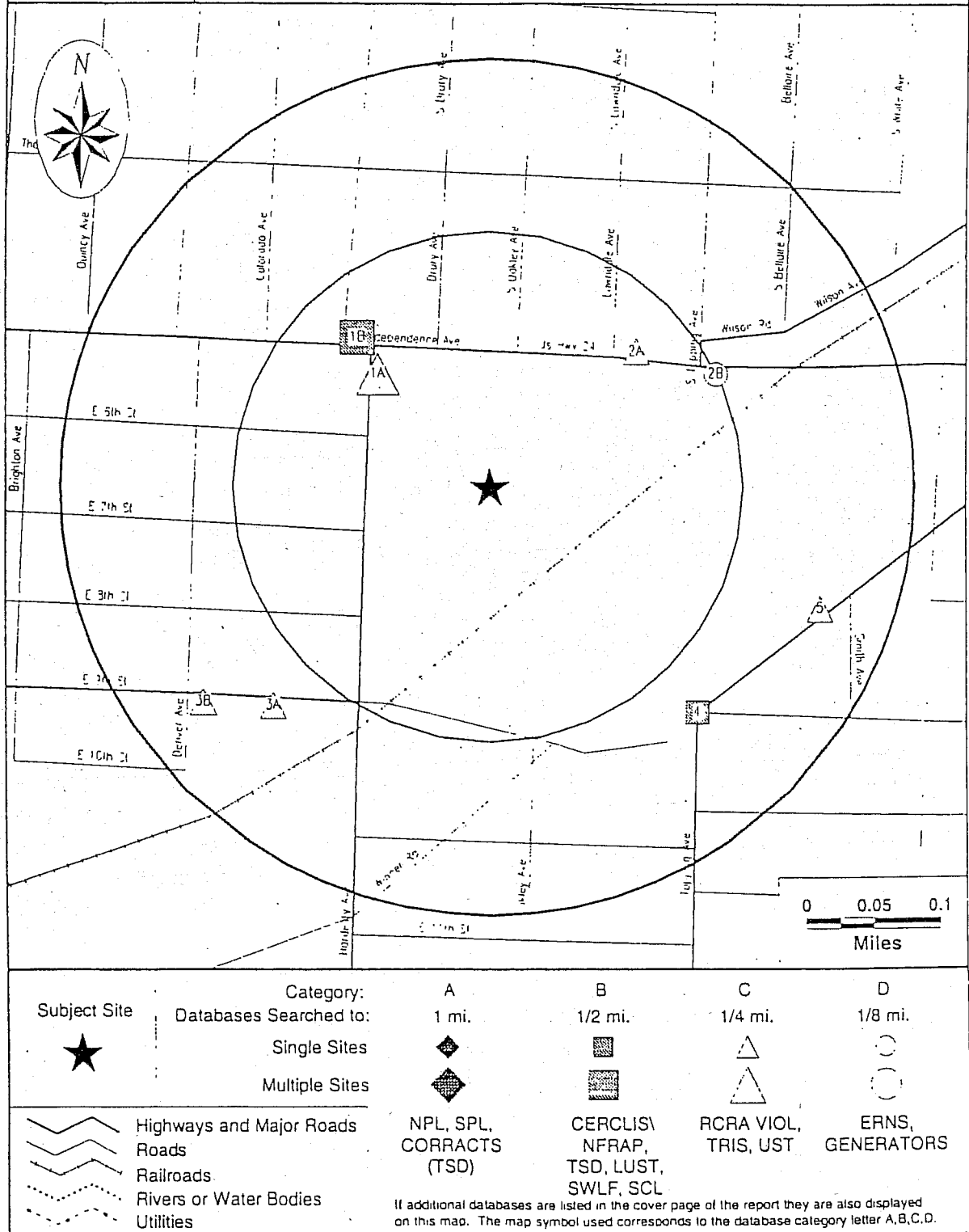
Report ID: 312601901

Date of Report: May 20, 1999

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SITE ASSESSMENT PLUS REPORT

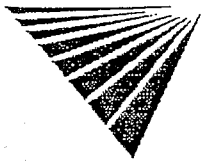
Map of Sites within Quarter Mile



For More Information Call VISTA Information Solutions, Inc. at 1 - 800 - 767 - 0403
Report ID: 312601901 Date:

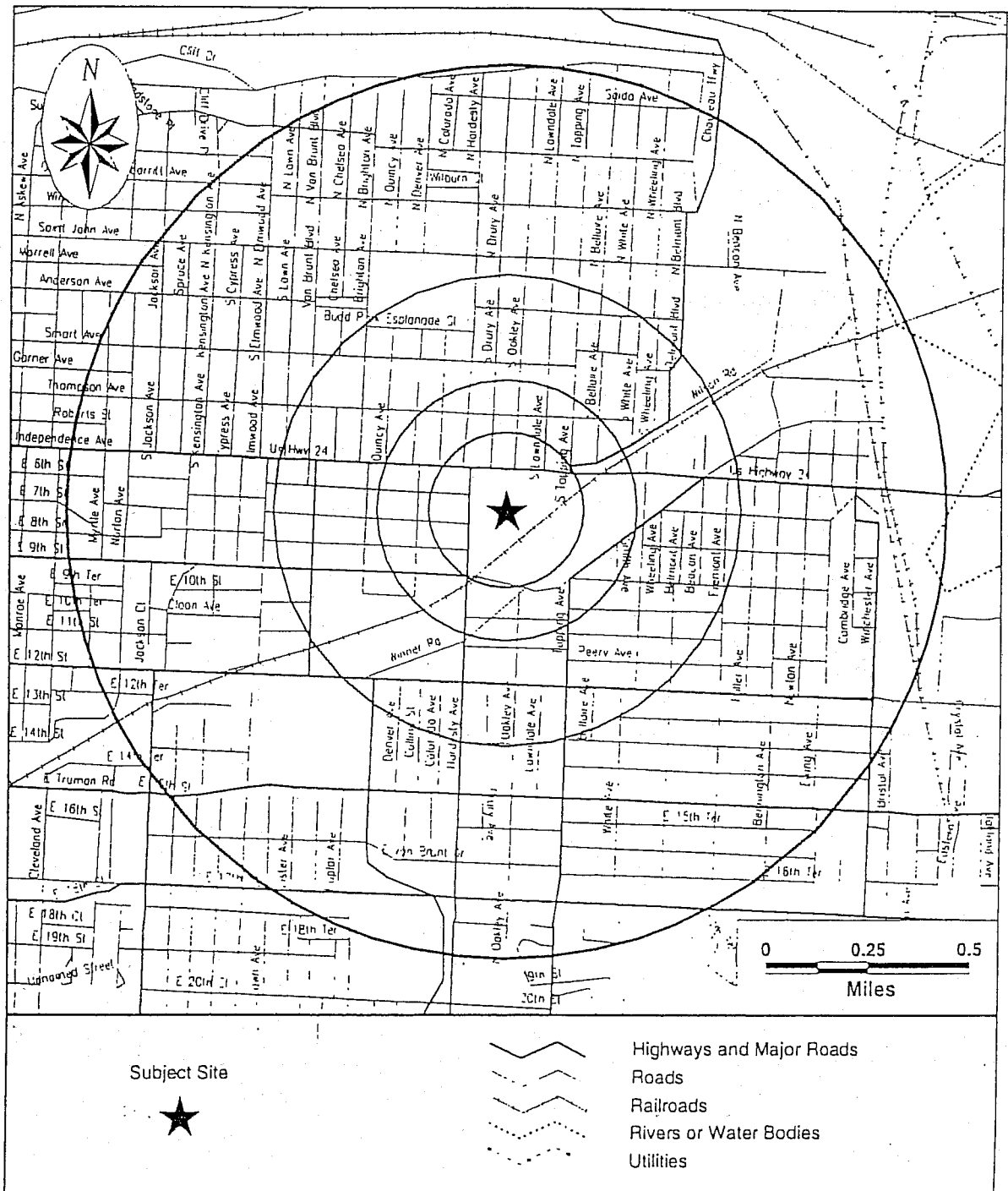
Date of Report: May 20, 1999

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SITE ASSESSMENT PLUS REPORT

Street Map



SITE ASSESSMENT PLUS REPORT

SITE INVENTORY

MAP ID	PROPERTY AND THE ADJACENT AREA (within 1/8 mile)	VISTA ID DISTANCE DIRECTION	A		B				C			D			
			NPL	CORRACTS	SPL	CERCLIS/INFRAP	TSD	LUST	SWLF	WATER WELLS	RCRA VIOL	TRIS	UST/AST	ERNS	GNRTR
1A	FED AVIATION ADMIN STAGING ARG 633 HARDESTY KANSAS CITY, MO 64124	1497801 0.05 MI NW													X
1A	619 HARDESTY KANSAS CITY, MO 64124	8097292 0.05 MI NW												X	
1A	NATIONAL WEATHER SRV TRAINING 617 HARDESTY AVE. BLDG 9 KANSAS CITY, MO 64124	59880501 0.05 MI NW												X	
1A	FEDERAL COMPLEX 607 HARDESTY AVE KANSAS CITY, MO 64123	1911114 0.06 MI NW										X			
1A	MARINE CORPS RESERVE SPT CMD 607 HARDESTY BLDG 11 DOOR 4 KANSAS CITY, MO 64123	5244391 0.06 MI NW													X
1B	WALGREENS 5420 INDEPENDENCE AVENUE KANSAS CITY, MO 64123	12379985 0.08 MI NW										X			
1B	WALGREENS 5420 INDEPENDENCE AVENUE KANSAS CITY, mo 64123	8041731 0.08 MI NW						X							
2A	TOTAL #4403 5712 INDEPENDENCE AVENUE KANSAS CITY, MO 64123	7480825 0.09 MI NE										X			
2B	CYCLE CHROME INC 5801 INDEPENDENCE AVE KANSAS CITY, MO 64123	2951620 0.12 MI E													X

MAP ID	SITES IN THE SURROUNDING AREA (within 1/8 - 1/4 mile)	VISTA ID DISTANCE DIRECTION	A		B				C		D				
			NPL	CORRACTS	SPL	CERCLIS/INFRAP	TSD	LUST	SWLF	WATER WELLS	RCRA VIOL	TRIS	UST/AST	ERNS	GNRTR
3A	HARDING GLASS 5301 E 9TH STREET KANSAS CITY, MO 64124	1909194 0.16 MI SW											X		
3B	DANIELS MCCRAY LUMBER CO 5201 E 9TH STREET KANSAS CITY, MO 64127	2486926 0.20 MI SW											X		



X = search criteria; * = tag-along (beyond search criteria).

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MAP ID	SITES IN THE SURROUNDING AREA (within 1/8 - 1/4 mile)	VISTA ID DISTANCE DIRECTION	A		B			C		D	
			NPL	CORRACTS	SPL	CERCLIS/INFRAP	TSD	LUST	SWLF	WATER WELLS	RCRA VIOL
4	TOPPING WINNER RD. DEMOLITION LF MO	5244189 0.16 MI SE							X		
5	PERCY KENT BAG CO 5910 WINNER RD KANSAS CITY, MO 64125	325672 0.20 MI E								X	

MAP ID	SITES IN THE SURROUNDING AREA (within 1/4 - 1/2 mile)	VISTA ID DISTANCE DIRECTION	A		B			C		D	
			NPL	CORRACTS	SPL	CERCLIS/INFRAP	TSD	LUST	SWLF	WATER WELLS	RCRA VIOL
6	GIT N GO 5402 WINNER ROAD KANSAS CITY, mo 64127	4849704 0.25 MI S						X			
7	PCB DISPOSAL SYSTEMS INC 5020 E 10TH ST KANSAS CITY, MO 64127	3412972 0.32 MI SW				X					
8	HANDY STOP #307 4815 INDEPENDENCE AVE KANSAS CITY, mo 64124	6753785 0.42 MI W						X			
8	AMOCO OIL SS #5033 4722 INDEPENDENCE AVE KANSAS CITY, mo 64124	777987 0.47 MI W						X			

MAP ID	SITES IN THE SURROUNDING AREA (within 1/2 - 1 mile)	VISTA ID DISTANCE DIRECTION	A		B			C		D	
			NPL	CORRACTS	SPL	CERCLIS/INFRAP	TSD	LUST	SWLF	WATER WELLS	RCRA VIOL
9	ARMCO INC 7000 ROBERTS KANSAS CITY, MO 64125	26548 0.81 MI E		X	X	*					*



X = search criteria; * = tag-along (beyond search criteria).

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UNMAPPED SITES	VISTA ID	A		B				C		D				
		NPL	CORRACTS	SPL	CERCLIS/NFRAP	TSD	LUST	SWLF	WATER WELLS	RCRA VIOL	TRIS	UST/AST	ERNS	CNRTR
KERR MCGEE CHEMICAL CORP 2300 OAKLAND KANSAS CITY, MO 64126	227384		X						X					•
ALL BRITE GAL BROSKE BROTHERS LAGOON 39TH BELMONT AVE KANSAS CITY, MO 64127	6853646				X									
LAKE CITY ARMY AMMUNITION PLANT JCT HWY 7 78 INDEPENDENCE, MO 64051	6653469		X						•		•			•
KPL GAS SERVICE INDEPENDENCE PLANT 23RD PLEASANT INDEPENDENCE, MO 64051	3617815										X			



X = search criteria; * = tag-along (beyond search criteria).

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SITE ASSESSMENT PLUS REPORT

DETAILS

PROPERTY AND THE ADJACENT AREA (within 1/8 mile)

VISTA Address*:	FED AVIATION ADMIN STAGING ARG 633 HARDESTY KANSAS CITY, MO 64124	VISTA ID#:	149780	Map ID 1A
		Distance/Direction:	0.05 MI / NW	
		Plotted as:	Point	
RCRA-LqGen - RCRA-Large Generator / SRC# 5596		EPA ID:	MO2210090062	
Agency Address:		FED AVIATION ADMIN STAGING ARG 633 HARDESTY BLDG NO 6 KANSAS CITY, MO 64124		
Generator Class:		Generates at least 1000 kg./month of non-acutely hazardous waste (or 1 kg./month of acutely hazardous waste).		

VISTA Address*:	619 HARDESTY KANSAS CITY, MO 64124	VISTA ID#:	8097292	Map ID 1A	
		Distance/Direction:	0.05 MI / NW		
		Plotted as:	Point		
ERNS - Emergency Response Notification System / SRC# 5598		EPA/Agency ID:	N/A		
Agency Address:		619 HARDESTY KANSAS CITY, MO			
Spill Date Time:		MAY 1, 1987 NOT REPORTED			
Spill Location:		619 HARDESTY			
Material Spilled:		PAINT THINNER, 78.00 (GAL)			
Fields Not Reported:		Case Number, Source Agency, Discharger Name, Discharger Org, Discharger Phone, Waterway Affected			
Air Release:	Land Release:	Water Release:	Ground Release:	Facility Release:	Other Release:
NO	NO	NO	NO	NO	NO

VISTA Address*:	NATIONAL WEATHER SRV TRAINING 617 HARDESTY AVE. BLDG 9 KANSAS CITY, MO 64124	VISTA ID#:	5988050	Map ID 1A	
		Distance/Direction:	0.05 MI / NW		
		Plotted as:	Point		
ERNS - Emergency Response Notification System / SRC# 5598		Agency ID:	04143H 1730		
Agency Address:		SAME AS ABOVE			
Spill Date Time:		APRIL 14, 1993 12:00:00 PM			
Case Number:		04143H 1730			
Spill Location:		617 HARDESTY AVE. BLDG 9			
Source Agency:		E			
Discharger Org:		NATIONAL WEATHER SRV TRAINING			
Material Spilled:		ASBESTOS, 0.00 (UNK)			
Fields Not Reported:		Discharger Name, Discharger Phone, Waterway Affected			
Air Release:	Land Release:	Water Release:	Ground Release:	Facility Release:	Other Release:
NO	NO	NO	NO	NO	NO



* VISTA address includes enhanced city and ZIP.

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PROPERTY AND THE ADJACENT AREA (within 1/8 mile) CONT.

ERNS - Emergency Response Notification System / SRC# 5598		Agency ID:	04143H 1730
Agency Address:	SAME AS ABOVE		
Spill Date Time:	APRIL 14, 1993 12:00:00 PM		
Case Number:	04143H 1730		
Spill Location:	617 HARDESTY AVE. BLDG 9		
Source Agency:	E		
Discharger Org:	NATIONAL WEATHER SRV TRAINING		
Material Spilled:	ASBESTOS, 0.00 (UNK)		
Fields Not Reported:	Discharger Name, Discharger Phone, Waterway Affected		
Air Release:	Land Release:	Water Release:	Ground Release:
NO	NO	NO	NO
Facility Release:	Other Release:		
NO	NO		
ERNS - Emergency Response Notification System / SRC# 5598		Agency ID:	04143H 1730
Agency Address:	SAME AS ABOVE		
Spill Date Time:	APRIL 14, 1993 12:00:00 PM		
Case Number:	04143H 1730		
Spill Location:	617 HARDESTY AVE. BLDG 9		
Source Agency:	E		
Discharger Org:	NATIONAL WEATHER SRV TRAINING		
Material Spilled:	ASBESTOS, 0.00 (UNK)		
Fields Not Reported:	Discharger Name, Discharger Phone, Waterway Affected		
Air Release:	Land Release:	Water Release:	Ground Release:
NO	NO	NO	NO
Facility Release:	Other Release:		
NO	NO		

VISTA Address*:	FEDERAL COMPLEX 607 HARDESTY AVE KANSAS CITY, MO 64123	VISTA ID#:	1911114
		Distance/Direction:	0.06 MI / NW
		Plotted as:	Point
STATE UST - State Underground Storage Tank / SRC# 5735		Agency ID:	ST0010970
Agency Address:	FEDERAL COMPLEX 607 HARDESTY AVE KANSAS CITY, MO 64124		
Underground Tanks:	3		
Aboveground Tanks:	NOT REPORTED		
Tanks Removed:	3		
Tank ID:	1U	Tank Status:	REMOVED
Tank Contents:	OTHER	Leak Monitoring:	NOT AVAILABLE
Tank Age:	NOT REPORTED	Tank Piping:	GALVANIZED STEEL
Tank Size (Units):	23000 (GALLONS)	Tank Material:	STEEL, INTERIOR PROTECTION-UNKNOWN, EXTERIOR PROTECTION-UNKNOWN
Tank ID:	2U	Tank Status:	REMOVED
Tank Contents:	OTHER	Leak Monitoring:	NOT AVAILABLE
Tank Age:	NOT REPORTED	Tank Piping:	GALVANIZED STEEL
Tank Size (Units):	23000 (GALLONS)	Tank Material:	STEEL, INTERIOR PROTECTION-UNKNOWN, EXTERIOR PROTECTION-UNKNOWN
Tank ID:	3U	Tank Status:	REMOVED
Tank Contents:	OTHER	Leak Monitoring:	NOT AVAILABLE
Tank Age:	NOT REPORTED	Tank Piping:	GALVANIZED STEEL
Tank Size (Units):	178000 (GALLONS)	Tank Material:	FRP CLAD STEEL

Map ID

1A



* VISTA address includes enhanced city and ZIP.

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PROPERTY AND THE ADJACENT AREA (within 1/8 mile) CONT.

VISTA Address*:	MARINE CORPS RESERVE SPT CMD 607 HARDESTY BLDG 11 DOOR 4 KANSAS CITY, MO 64123	VISTA ID#:	5244391
		Distance/Direction:	0.06 MI / NW
		Plotted as:	Point
RCRA-SmGen - RCRA-Small Generator / SRC# 5596		EPA ID:	MO0000565515
Agency Address:		MARINE CORPS RESERVE SPT CMD 607 HARDESTY BLDG 11 DOOR 4 KANSAS CITY, MO 64124	
Generator Class:		Generates 100 kg./month but less than 1000 kg./month of non-acutely hazardous waste	

Map ID

1A

VISTA Address*:	WALGREENS 5420 INDEPENDENCE AVENUE KANSAS CITY, MO 64123	VISTA ID#:	12379985
		Distance/Direction:	0.08 MI / NW
		Plotted as:	Point
STATE UST - State Underground Storage Tank / SRC# 5735		Agency ID:	ST0001938
Agency Address:		SAME AS ABOVE	
Underground Tanks:		4	
Aboveground Tanks:		NOT REPORTED	
Tanks Removed:		4	

Map ID

1B

Tank ID:	1U	Tank Status:	REMOVED
Tank Contents:	GASOLINE (UNSPECIFIED)	Leak Monitoring:	MONITOR PRESENT
Tank Age:	NOT REPORTED	Tank Piping:	BARE STEEL, SUCTION
Tank Size (Units):	6000 (GALLONS)	Tank Material:	STEEL, INTERIOR PROTECTION-NONE, EXTERIOR PROTECTION-NONE
Tank ID:	2U	Tank Status:	REMOVED
Tank Contents:	GASOLINE (UNSPECIFIED)	Leak Monitoring:	MONITOR PRESENT
Tank Age:	NOT REPORTED	Tank Piping:	BARE STEEL
Tank Size (Units):	6000 (GALLONS)	Tank Material:	STEEL, INTERIOR PROTECTION-NONE, EXTERIOR PROTECTION-NONE
Tank ID:	3U	Tank Status:	REMOVED
Tank Contents:	GASOLINE (UNSPECIFIED)	Leak Monitoring:	MONITOR PRESENT
Tank Age:	NOT REPORTED	Tank Piping:	BARE STEEL, SUCTION
Tank Size (Units):	2500 (GALLONS)	Tank Material:	STEEL, INTERIOR PROTECTION-NONE, EXTERIOR PROTECTION-NONE
Tank ID:	4U	Tank Status:	REMOVED
Tank Contents:	USED OIL	Leak Monitoring:	MONITOR PRESENT
Tank Age:	NOT REPORTED	Tank Piping:	BARE STEEL, SUCTION
Tank Size (Units):	560 (GALLONS)	Tank Material:	STEEL, INTERIOR PROTECTION-NONE, EXTERIOR PROTECTION-NONE

VISTA Address*:	WALGREENS 5420 INDEPENDENCE AVENUE KANSAS CITY, mo 64123	VISTA ID#:	8041731
		Distance/Direction:	0.08 MI / NW
		Plotted as:	Point
STATE LUST - State Leaking Underground Storage Tank / SRC# 5301		EPA/Agency ID:	N/A
Agency Address:		WALGREENS 5420 INDEPENDENCE AVENUE KANSAS CITY, mo	
Facility ID:		ST0001938	
Leak ID#:		LU05871	
Description / Comment:		FACILITY STATUS: INACTIVE	

Map ID

1B



* VISTA address includes enhanced city and ZIP.

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PROPERTY AND THE ADJACENT AREA (within 1/8 mile) CONT.

VISTA Address*:	TOTAL #4403 5712 INDEPENDENCE AVENUE KANSAS CITY, MO 64123	VISTA ID#:	7480825
		Distance/Direction:	0.09 MI / NE
		Plotted as:	Point
STATE UST - State Underground Storage Tank / SRC# 5735		Agency ID:	ST0003305

Map ID

2A

Agency Address:	SAME AS ABOVE		
Underground Tanks:	9		
Aboveground Tanks:	NOT REPORTED		
Tanks Removed:	5		
Tank ID:	1U	Tank Status:	REMOVED
Tank Contents:	GASOLINE (UNSPECIFIED)	Leak Monitoring:	NOT AVAILABLE
Tank Age:	32	Tank Piping:	GALVANIZED STEEL
Tank Size (Units):	10000 (GALLONS)	Tank Material:	STEEL, INTERIOR PROTECTION-NONE, EXTERIOR PROTECTION-PAINTED
Tank ID:	2U	Tank Status:	REMOVED
Tank Contents:	GASOLINE (UNSPECIFIED)	Leak Monitoring:	NOT AVAILABLE
Tank Age:	32	Tank Piping:	GALVANIZED STEEL
Tank Size (Units):	10000 (GALLONS)	Tank Material:	STEEL, INTERIOR PROTECTION-NONE, EXTERIOR PROTECTION-PAINTED
Tank ID:	3U	Tank Status:	REMOVED
Tank Contents:	GASOLINE (UNSPECIFIED)	Leak Monitoring:	NOT AVAILABLE
Tank Age:	32	Tank Piping:	GALVANIZED STEEL
Tank Size (Units):	10000 (GALLONS)	Tank Material:	STEEL, INTERIOR PROTECTION-NONE, EXTERIOR PROTECTION-PAINTED
Tank ID:	4U	Tank Status:	REMOVED
Tank Contents:	GASOLINE (UNSPECIFIED)	Leak Monitoring:	NOT AVAILABLE
Tank Age:	32	Tank Piping:	GALVANIZED STEEL
Tank Size (Units):	10000 (GALLONS)	Tank Material:	STEEL, INTERIOR PROTECTION-NONE, EXTERIOR PROTECTION-PAINTED
Tank ID:	5U	Tank Status:	REMOVED
Tank Contents:	GASOLINE (UNSPECIFIED)	Leak Monitoring:	NOT AVAILABLE
Tank Age:	32	Tank Piping:	GALVANIZED STEEL
Tank Size (Units):	10000 (GALLONS)	Tank Material:	STEEL, INTERIOR PROTECTION-NONE, EXTERIOR PROTECTION-PAINTED
Tank ID:	6U	Tank Status:	CURRENT
Tank Contents:	GASOLINE (UNSPECIFIED)	Leak Monitoring:	MONITOR PRESENT
Tank Age:	9	Tank Piping:	FIBERGLASS REINFORCED PLASTIC, PRESSURIZED
Tank Size (Units):	8000 (GALLONS)	Tank Material:	STI-P3, EXTERIOR PROTECTION-CATHODICALLY PROTECTED
Tank ID:	7U	Tank Status:	CURRENT
Tank Contents:	GASOLINE (UNSPECIFIED)	Leak Monitoring:	MONITOR PRESENT
Tank Age:	9	Tank Piping:	FIBERGLASS REINFORCED PLASTIC, PRESSURIZED
Tank Size (Units):	10000 (GALLONS)	Tank Material:	STI-P3, EXTERIOR PROTECTION-CATHODICALLY PROTECTED
Tank ID:	8U	Tank Status:	CURRENT
Tank Contents:	GASOLINE (UNSPECIFIED)	Leak Monitoring:	MONITOR PRESENT
Tank Age:	9	Tank Piping:	FIBERGLASS REINFORCED PLASTIC, PRESSURIZED
Tank Size (Units):	10000 (GALLONS)	Tank Material:	STI-P3, EXTERIOR PROTECTION-CATHODICALLY PROTECTED



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PROPERTY AND THE ADJACENT AREA (within 1/8 mile) CONT.

Tank ID:	9U	Tank Status:	CURRENT
Tank Contents:	GASOLINE (UNSPECIFIED)	Leak Monitoring:	MONITOR PRESENT
Tank Age:	9	Tank Piping:	FIBERGLASS REINFORCED, PLASTIC,PRESSURIZED
Tank Size (Units):	12000 (GALLONS)	Tank Material:	STI-P3, EXTERIOR PROTECTION-CATHODICALLY PROTECTED

VISTA Address*:	CYCLE CHROME INC 5801 INDEPENDENCE AVE KANSAS CITY, MO 64123	VISTA ID#:	2951620
		Distance/Direction:	0.12 MI / E
		Plotted as:	Point
RCRA-SmGen - RCRA-Small Generator / SRC# 5596		EPA ID:	MOD985804970

Map ID

2B

Agency Address: CYCLE CHROME INC
5801 INDEPENDENCE AVE
LEES SUMMIT, MO 64063

Generator Class: Generates 100 kg./month but less than 1000 kg./month of non-acutely hazardous waste

SITES IN THE SURROUNDING AREA (within 1/8 - 1/4 mile)

VISTA Address*:	HARDING GLASS 5301 E 9TH STREET KANSAS CITY, MO 64124	VISTA ID#:	1909194
		Distance/Direction:	0.16 MI / SW
		Plotted as:	Point
STATE UST - State Underground Storage Tank / SRC# 5735		Agency ID:	ST0003087

Map ID

3A

Agency Address: SAME AS ABOVE

Underground Tanks: 1

Aboveground Tanks: NOT REPORTED

Tanks Removed: 1

Tank ID:	1U	Tank Status:	REMOVED
Tank Contents:	GASOLINE (UNSPECIFIED)	Leak Monitoring:	NOT AVAILABLE
Tank Age:	NOT REPORTED	Tank Piping:	GALVANIZED STEEL
Tank Size (Units):	1000 (GALLONS)	Tank Material:	STEEL, INTERIOR PROTECTION-UNKNOWN, EXTERIOR PROTECTION-UNKNOWN

VISTA Address*:	DANIELS MCCRAY LUMBER CO 5201 E 9TH STREET KANSAS CITY, MO 64127	VISTA ID#:	2486926
		Distance/Direction:	0.20 MI / SW
		Plotted as:	Point
STATE UST - State Underground Storage Tank / SRC# 5735		Agency ID:	ST0007672

Map ID

3B

Agency Address: DANIELS MCCRAY LUMBER CO
5201 E 9TH STREET
KANSAS CITY, MO

Underground Tanks: 1

Aboveground Tanks: NOT REPORTED

Tanks Removed: 1

Tank ID:	1U	Tank Status:	REMOVED
Tank Contents:	GASOLINE (UNSPECIFIED)	Leak Monitoring:	NOT AVAILABLE
Tank Age:	NOT REPORTED	Tank Piping:	GALVANIZED STEEL
Tank Size (Units):	10000 (GALLONS)	Tank Material:	STEEL, INTERIOR PROTECTION-UNKNOWN, EXTERIOR PROTECTION-UNKNOWN



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SITES IN THE SURROUNDING AREA (within 1/8 - 1/4 mile) CONT.

VISTA Address*:	TOPPING WINNER RD. DEMOLITION LF MO	VISTA ID#:	5244189	Map ID 4
		Distance/Direction:	0.16 MI / SE	
		Plotted as:	Point	
STATE SWLF - Solid Waste Landfill / SRC# 2573		Agency ID:	0209505	

Agency Address: SAME AS ABOVE
 Facility Type: CONSTRUCTION/DEMOLITION
 Facility Status: INACTIVE
 Facility Life: NOT REPORTED
 Permit Status: NOT AVAILABLE
 Waste: NOT REPORTED

STATE SWLF - Solid Waste Landfill / SRC# 5520		Agency ID:	0209505
Agency Address:	SAME AS ABOVE		
Facility Type:	CONSTRUCTION/DEMOLITION		
Facility Status:	NOT AVAILABLE		
Facility Life:	NOT REPORTED		
Permit Status:	CLOSED		
Waste:	NOT REPORTED		

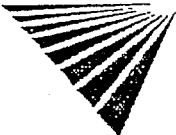
VISTA Address*:	PERCY KENT BAG CO 5910 WINNER RD KANSAS CITY, MO 64125	VISTA ID#:	325672	Map ID 5
		Distance/Direction:	0.20 MI / E	
		Plotted as:	Point	
RCRA-Violations / SRC# 5596		EPA ID:	MOD007122286	

Agency Address: PERCY KENT BAG CO INC
 5910 WINNER RD
 KANSAS CITY, MO 64125
 Enforcement Number: 198804060
 Enforcement Agency: State
 Action Date: APRIL 6, 1988
 Action Type: WRITTEN INFORMAL
 Penalty Assessed: NOT REPORTED
 Penalty Settlement: NOT REPORTED
 Violation Type: GENERATOR-OTHER REQUIREMENTS
 Violation Date: MARCH 23, 1988
 Violation Class: 2
 Actual Compliance Date: APRIL 20, 1988
 Scheduled Compliance Date: MAY 6, 1988

SITES IN THE SURROUNDING AREA (within 1/4 - 1/2 mile)

VISTA Address*:	GIT N GO 5402 WINNER ROAD KANSAS CITY, mo 64127	VISTA ID#:	4849704	Map ID 6
		Distance/Direction:	0.25 MI / S	
		Plotted as:	Point	
STATE LUST - State Leaking Underground Storage Tank / SRC# 5301		EPA/Agency ID:	N/A	

Agency Address: GIT N GO
 5402 WINNER ROAD
 KANSAS CITY, mo
 Facility ID: ST
 Leak ID#: LU04257
 Description / Comment: FACILITY STATUS: ACTIVE



SITES IN THE SURROUNDING AREA (within 1/4 - 1/2 mile) CONT.

VISTA Address*:	PCB DISPOSAL SYSTEMS INC 5020 E 10TH ST KANSAS CITY, MO 64127	VISTA ID#:	3412972	Map ID 7
		Distance/Direction:	0.32 MI / SW	
		Plotted as:	Point	
NFRAP / SRC# 5791		EPA ID:	MOD980852255	
Agency Address:	SAME AS ABOVE			
EPA Region:	7			
Congressional District:	5			
Federal Facility:	Agency Code ()			
Facility Ownership:	OTHER			
Site Incident Category:	unknown			
Federal Facility Docket:	SITE IS NOT INCLUDED ON THE DOCKET			
NPL Status:	NOT ON NPL			
Incident Type:	Unknown			
Proposed NPL Update #:	0			
Final NPL Update #:	0			
Financial Management System ID:	076N			
Latitude:	3906044			
Longitude:	9431199			
Lat/Long Source:	RESEARCHED BY THE REGION AND MANUALLY ENTERED			
Lat/Long Accuracy:	Unknown			
Dioxin Tier:	Unknown			
USGS Hydro Unit:	10300101			
RCRA Indicator:	YES (RCRA FACILITY)			
Unit Id:	0			
Unit Name:	ENTIRE SITE			
Type:	DISCOVERY	Lead Agency:	EPA FUND-FINANCED	
Qualifier:	UNKNOWN	Category:	Unknown	
Name:	NOT REPORTED	Actual Start Date:	NOT REPORTED	
Plan Status:	Unknown	Actual Completion Date:	APRIL 2, 1985	
Type:	PRELIMINARY ASSESSMENT	Lead Agency:	EPA FUND-FINANCED	
Qualifier:	LOWER PRIORITY	Category:	Unknown	
Name:	NOT REPORTED	Actual Start Date:	UNKNOWN	
Plan Status:	PRIMARY	Actual Completion Date:	AUGUST 1, 1986	
Type:	SCREENING SITE INSPECTION	Lead Agency:	EPA FUND-FINANCED	
Qualifier:	NO FURTHER REMEDIAL ACTION PLANNED	Category:	Unknown	
Name:	NOT REPORTED	Actual Start Date:	JULY 2, 1986	
Plan Status:	PRIMARY	Actual Completion Date:	AUGUST 1, 1986	
VISTA Address*:	HANDY STOP #307 4815 INDEPENDENCE AVE KANSAS CITY, mo 64124	VISTA ID#:	6753785	Map ID 8
		Distance/Direction:	0.42 MI / W	
		Plotted as:	Point	
STATE LUST - State Leaking Underground Storage Tank / SRC# 5301		EPA/Agency ID:	N/A	
Agency Address:	HANDY STOP #307 4815 INDEPENDENCE AVE KANSAS CITY, mo			
Facility ID:	ST0003091			
Leak ID#:	LU05652			
Description / Comment:	FACILITY STATUS. INACTIVE			



* VISTA address includes enhanced city and ZIP.

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SITES IN THE SURROUNDING AREA (within 1/4 - 1/2 mile) CONT.

VISTA Address*:	AMOCO OIL SS #5033 4722 INDEPENDENCE AVE KANSAS CITY, mo 64124	VISTA ID#:	777987	Map ID 8
		Distance/Direction:	0.47 MI / W	
		Plotted as:	Point	
STATE LUST - State Leaking Underground Storage Tank / SRC# 5301		EPA/Agency ID:	N/A	
Agency Address:	AMOCO OIL SS #5033 4722 INDEPENDENCE AVE KANSAS CITY, mo ST0010219			
Facility ID:	ST0010219			
Leak ID#:	LU02144			
Description / Comment:	FACILITY STATUS: INACTIVE			
STATE LUST - State Leaking Underground Storage Tank / SRC# 5301		EPA/Agency ID:	N/A	
Agency Address:	AMOCO OIL SS #5033 4722 INDEPENDENCE AVE KANSAS CITY, mo ST0010219			
Facility ID:	ST0010219			
Leak ID#:	LU02208			
Description / Comment:	FACILITY STATUS: ACTIVE			

SITES IN THE SURROUNDING AREA (within 1/2 - 1 mile)

VISTA Address*:	ARMCO INC 7000 ROBERTS KANSAS CITY, MO 64125	VISTA ID#:	26548	Map ID 9
		Distance/Direction:	0.81 MI / E	
		Plotted as:	Point	
SPL - State Equivalent Priority List / SRC# 5519		EPA/Agency ID:	N/A	
Agency Address:	ARMCO 7000 WINNER RD KANSAS CITY, MO 64125 UNKNOWN			
Status:	NOT AVAILABLE			
Facility Type:	NOT AVAILABLE			
Lead Agency:	NOT AVAILABLE			
State Status:	REGISTERED			
Pollutant 1:	CADMIUM			
Pollutant 2:	LEAD			
Pollutant 3:	UNKNOWN			



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SITES IN THE SURROUNDING AREA (within 1/2 - 1 mile) CONT.

CORRACTS / SRC# 5596		EPA ID:	MOD007118029
Agency Address:	ARMCO INC 7000 ROBERTS ST KANSAS CITY, MO 64125		
Prioritization Status:	HIGH		
RCRA Facility Assessment Completed:	YES		
Notice of Contamination:	NO		
Determination of need For a RFI (RCRA Facility Investigation):	YES		
RFI Imposed:	YES		
RFI Workplan Notice of Deficiency Issued:	NO		
RFI Workplan Approved:	YES		
RFI Report Received:	NO		
RFI Approved:	NO		
No Further Corrective Action at this Time:	NO		
Stabilization Mesasures Evaluation:	YES		
CMS (Corrective Measure Study) Imposition:	NO		
CMS Workplan Approved:	NO		
CMS Report Received:	NO		
CMS Approved:	NO		
Date for Remedy Selection (CM Imposed):	NO		
Corrective Measures Design Approved:	NO		
Corrective Measures Investigation Workplan Approved:	NO		
Certification of Remedy Completion:	NO		
Stabilization Measures Implementation:	YES		
Stabilization Measures Completed:	YES		
Corrective Action Process Termination:	NO		
RCRA-TSD CORRACTS / SRC# 5596		EPA ID:	MOD007118029
Agency Address:	ARMCO INC 7000 ROBERTS ST KANSAS CITY, MO 64125		
Off-Site Waste Received:	NO		
Land Disposal:	YES		
Incinerator:	NO		
Storage/Treatment:	NO		



* VISTA address includes enhanced city and ZIP.

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UNMAPPED SITES

VISTA Address*:	KERR MCGEE CHEMICAL CORP 2300 OAKLAND KANSAS CITY, MO 64126	VISTA ID#:	227384
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CORRACTS / SRC# 5596	EPA ID:	MOD007128978
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Agency Address: SAME AS ABOVE
 Prioritization Status: HIGH
 RCRA Facility Assessment Completed: YES
 Notice of Contamination: NO
 Determination of need For a RFI (RCRA Facility Investigation): YES
 RFI Imposed: YES
 RFI Workplan Notice of Deficiency Issued: NO
 RFI Workplan Approved: YES
 RFI Report Received: NO
 RFI Approved: YES
 No Further Corrective Action at this Time: NO
 Stabilization Measures Evaluation: YES
 CMS (Corrective Measure Study) Imposition: NO
 CMS Workplan Approved: YES
 CMS Report Received: NO
 CMS Approved: YES
 Date for Remedy Selection (CM Imposed): NO
 Corrective Measures Design Approved: NO
 Corrective Measures Investigation Workplan Approved: NO
 Certification of Remedy Completion: NO
 Stabilization Measures Implementation: YES
 Stabilization Measures Completed: YES
 Corrective Action Process Termination: NO

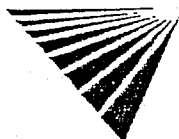
RCRA-TSD CORRACTS / SRC# 5596	EPA ID:	MOD007128978
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Agency Address: SAME AS ABOVE
 Off-Site Waste Received: NO
 Land Disposal: YES
 Incinerator: NO
 Storage/Treatment: NO

VISTA Address*:	ALL BRITE GAL BROSKEI BROTHERS LAGOON 39TH BELMONT AVE KANSAS CITY, MO 64127	VISTA ID#:	6853646
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NFRAP / SRC# 5791	EPA ID:	MOD981126881
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Agency Address: SAME AS ABOVE
 Alias Name: ALL BRITE GAL VANIZING (FINDS)
 Alias Street: NOT REPORTED
 Alias City: NOT REPORTED Alias Latitude: 0
 Alias Zip: NOT REPORTED Alias Longitude: 0
 Alias State: MO
 Alias Description: FINDS EPA ID# NOT300010972
 Alias Name: BROSKEI BROTHERS INC (FINDS)
 Alias Street: 3915 FULLER



UNMAPPED SITES CONT.

Alias City:	KANSAS CITY	Alias Latitude:	0
Alias Zip:	64129	Alias Longitude:	0
Alias State:	MO		
Alias Description:	FINDS EPA ID# NOT300010972		
EPA Region:	7		
Congressional District:	5		
Federal Facility:	Agency Code ()		
Facility Ownership:	OTHER		
Site Incident Category:	unknown		
Federal Facility Docket:	SITE IS NOT INCLUDED ON THE DOCKET		
NPL Status:	NOT ON NPL		
Incident Type:	Unknown		
Proposed NPL Update #:	0		
Final NPL Update #:	0		
Financial Management System ID:	NOT REPORTED		
Latitude:	3903160		
Longitude:	9430420		
Lat/Long Source:	RESEARCHED BY THE REGION AND MANUALLY ENTERED		
Lat/Long Accuracy:	Unknown		
Dioxin Tier:	Unknown		
USGS Hydro Unit:	10300101		
RCRA Indicator:	YES (RCRA FACILITY)		
Unit Id:	0		
Unit Name:	ENTIRE SITE		
Type:	DISCOVERY	Lead Agency:	EPA FUND-FINANCED
Qualifier:	UNKNOWN	Category:	Unknown
Name:	NOT REPORTED	Actual Start Date:	NOT REPORTED
Plan Status:	Unknown	Actual Completion Date:	UNKNOWN
Type:	PRELIMINARY ASSESSMENT	Lead Agency:	EPA FUND-FINANCED
Qualifier:	NO FURTHER REMEDIAL ACTION PLANNED	Category:	Unknown
Name:	NOT REPORTED	Actual Start Date:	AUGUST 2, 1984
Plan Status:	PRIMARY	Actual Completion Date:	AUGUST 2, 1984



UNMAPPED SITES CONT.

VISTA Address*:	LAKE CITY ARMY AMMUNITION PLANT JCT HWY 7 78 INDEPENDENCE, MO 64051	VISTA ID#:	6653469
CORRACTS / SRC# 5596		EPA ID:	MO4213820489
Agency Address:	LAKE CITY ARMY AMMUNITION PLANT JCT HWY 7 78 INDEPENDENCE, MO 640510250		
Prioritization Status:	HIGH		
RCRA Facility Assessment Completed:	YES		
Notice of Contamination:	NO		
Determination of need For a RFI (RCRA Facility Investigation):	YES		
RFI Imposed:	YES		
RFI Workplan Notice of Deficiency Issued:	NO		
RFI Workplan Approved:	NO		
RFI Report Received:	NO		
RFI Approved:	NO		
No Further Corrective Action at this Time:	YES		
Stabilization Mesasures Evaluation:	YES		
CMS (Corrective Measure Study) Imposition:	NO		
CMS Workplan Approved:	NO		
CMS Report Received:	NO		
CMS Approved:	NO		
Date for Remedy Selection (CM Imposed):	NO		
Corrective Measures Design Approved:	NO		
Corrective Measures Investigation Workplan Approved:	NO		
Certification of Remedy Completion:	NO		
Stabilization Measures Implementation:	NO		
Stabilization Measures Completed:	NO		
Corrective Action Process Termination:	NO		
RCRA-TSD CORRACTS / SRC# 5596		EPA ID:	MO4213820489
Agency Address:	LAKE CITY ARMY AMMUNITION PLANT JCT HWY 7 78 INDEPENDENCE, MO 640510250		
Off-Site Waste Received:	YES		
Land Disposal:	YES		
Incinerator:	YES		
Storage/Treatment:	YES		



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SITE ASSESSMENT PLUS REPORT

DESCRIPTION OF DATABASES SEARCHED

A) DATABASES SEARCHED TO 1 MILE

NPL
SRC#: 5789 VISTA conducts a database search to identify all sites within 1 mile of your property.
The agency release date for NPL was April, 1999.

The National Priorities List (NPL) is the EPA's database of uncontrolled or abandoned hazardous waste sites identified for priority remedial actions under the Superfund program. A site must meet or surpass a predetermined hazard ranking system score, be chosen as a state's top priority site, or meet three specific criteria set jointly by the US Dept of Health and Human Services and the US EPA in order to become an NPL site.

SPL
SRC#: 5519 VISTA conducts a database search to identify all sites within 1 mile of your property.
The agency release date for Quarterly Registry Log of Proposed Final Sites was October, 1998.

This database is provided by the Department of Natural Resources, Superfund Section. The agency may be contacted at: 573-751-3176.

CORRACTS
SRC#: 5596 VISTA conducts a database search to identify all sites within 1 mile of your property.
The agency release date for HWDMS/RCRIS was February, 1999.

The EPA maintains this database of RCRA facilities which are undergoing "corrective action". A "corrective action order" is issued pursuant to RCRA Section 3008 (h) when there has been a release of hazardous waste or constituents into the environment from a RCRA facility. Corrective actions may be required beyond the facility's boundary and can be required regardless of when the release occurred, even if it predates RCRA.

B) DATABASES SEARCHED TO 1/2 MILE

CERCLIS
SRC#: 5790 VISTA conducts a database search to identify all sites within 1/2 mile of your property.
The agency release date for CERCLIS was March, 1999.

The CERCLIS List contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL. The information on each site includes a history of all pre-remedial, remedial, removal and community relations activities or events at the site, financial funding information for the events, and unrestricted enforcement activities.

NFRAP
SRC#: 5791 VISTA conducts a database search to identify all sites within 1/2 mile of your property.
The agency release date for CERCLIS-NFRAP was March, 1999.

NFRAP sites may be sites where, following an initial investigation, no contamination was found, contamination was removed quickly, or the contamination was not serious enough to require Federal Superfund action or NPL consideration.



RCRA-TSD
SRC#: 5596

VISTA conducts a database search to identify all sites within 1/2 mile of your property.
The agency release date for HWDMS/RCRIS was February, 1999.

The EPA's Resource Conservation and Recovery Act (RCRA) Program identifies and tracks hazardous waste from the point of generation to the point of disposal. The RCRA Facilities database is a compilation by the EPA of facilities which report generation, storage, transportation, treatment or disposal of hazardous waste. RCRA TSDs are facilities which treat, store and/or dispose of hazardous waste.

SWLF
SRC#: 2573

VISTA conducts a database search to identify all sites within 1/2 mile of your property.
The agency release date for Inactive Solid Waste Facilities List was July, 1995.

This database is provided by the Department of Natural Resources, Waste Management Program. The agency may be contacted at: .

SWLF
SRC#: 5520

VISTA conducts a database search to identify all sites within 1/2 mile of your property.
The agency release date for Permitted Solid Waste Facilities List was November, 1998.

This database is provided by the Department of Natural Resources, Waste Management Program. The agency may be contacted at: 573-751-5401.

SWLF
SRC#: 5799

VISTA conducts a database search to identify all sites within 1/2 mile of your property.
The agency release date for Certified Hazardous Waste Recovery Facilities was March, 1999.

This database is provided by the Department of Natural Resources. The agency may be contacted at: 573-751-5401.

LUST
SRC#: 5301

VISTA conducts a database search to identify all sites within 1/2 mile of your property.
The agency release date for LUST Active Sites List was September, 1998.

This database is provided by the Department of Natural Resources, LUST Program. The agency may be contacted at: 573-751-6822.

Water Wells
SRC#: 5384

VISTA conducts a database search to identify all sites within 1/2 mile of your property.
The agency release date for USGS WATER WELLS was March, 1998.

The Ground Water Site Inventory (GWSI) database was provided by the United States Geological Survey (USGS). The database contains information for over 1,000,000 wells and other sources of groundwater which the USGS has studied, used, or otherwise had reason to document through the course of research. The agency may be contacted at 703-648-6819.

C) DATABASES SEARCHED TO 1/4 MILE

RCRA-Viols/Enfs
SRC#: 5596

VISTA conducts a database search to identify all sites within 1/4 mile of your property.
The agency release date for HWDMS/RCRIS was February, 1999.

The EPA's Resource Conservation and Recovery Act (RCRA) Program identifies and tracks hazardous waste from the point of generation to the point of disposal. The RCRA Facilities database is a compilation by the EPA of facilities which report generation, storage, transportation, treatment or disposal of hazardous waste. RCRA Violators are facilities which have been cited for RCRA Violations at least once since 1980. RCRA Enforcements are enforcement actions taken against RCRA violators.

UST's
SRC#: 5735

VISTA conducts a database search to identify all sites within 1/4 mile of your property.
The agency release date for Underground Storage Tanks List was November, 1998.

This database is provided by the Department of Natural Resources. The agency may be contacted at: 573-751-6822.
Caution-Many states do not require registration of heating oil tanks, especially those used for residential purposes.



TRIS
SRC#: 4946

VISTA conducts a database search to identify all sites within 1/4 mile of your property.
The agency release date for TRIS was January, 1998.

Section 313 of the Emergency Planning and Community Right-to-Know Act (also known as SARA Title III) of 1986 requires the EPA to establish an inventory of Toxic Chemicals emissions from certain facilities (Toxic Release Inventory System). Facilities subject to this reporting are required to complete a Toxic Chemical Release Form (Form R) for specified chemicals.

D) DATABASES SEARCHED TO 1/8 MILE

ERNS
SRC#: 5598

VISTA conducts a database search to identify all sites within 1/8 mile of your property.
The agency release date for ERNS was December, 1998.

The Emergency Response Notification System (ERNS) is a national database containing records from October 1986 to the release date above and is used to collect information for reported releases of oil and hazardous substances. The database contains information from spill reports made to federal authorities including the EPA, the US Coast Guard, the National Response Center and the Department of Transportation. The ERNS hotline number is (202) 260-2342.

RCRA-LgGen
SRC#: 5596

VISTA conducts a database search to identify all sites within 1/8 mile of your property.
The agency release date for HWDMS/RCRIS was February, 1999.

The EPA's Resource Conservation and Recovery Act (RCRA) Program identifies and tracks hazardous waste from the point of generation to the point of disposal. The RCRA Facilities database is a compilation by the EPA of facilities which report generation, storage, transportation, treatment or disposal of hazardous waste. RCRA Large Generators are facilities which generate at least 1000 kg./month of non-acutely hazardous waste (or 1 kg./month of acutely hazardous waste).

RCRA-SmGen
SRC#: 5596

VISTA conducts a database search to identify all sites within 1/8 mile of your property.
The agency release date for HWDMS/RCRIS was February, 1999.

The EPA's Resource Conservation and Recovery Act (RCRA) Program identifies and tracks hazardous waste from the point of generation to the point of disposal. The RCRA Facilities database is a compilation by the EPA of facilities which report generation, storage, transportation, treatment or disposal of hazardous waste. RCRA Small and Very Small generators are facilities which generate less than 1000 kg./month of non-acutely hazardous waste.

End of Report



SITE ASSESSMENT PLUS REPORT

PROPERTY INFORMATION	CLIENT INFORMATION
Project Name/Ref #: 50997737 Hardesty Federal Center 607 Hardesty Ave. Kansas City, MO 64124 Latitude/Longitude: (39.103770, 94.517097)	Tracie Ragland Terracon 15950 College Boulevard Lenexa, KS 66219

Site Distribution Summary			within 1/8 mile	1/8 to 1/4 mile	1/4 to 1/2 mile	1/2 to 1 mile
Agency / Database - Type of Records						
A) Databases searched to 1 mile:						
US EPA	NPL	National Priority List	0	0	0	0
US EPA	CORRACTS	RCRA Corrective Actions	0	0	0	1
STATE	SPL	State equivalent priority list	0	0	0	1
B) Databases searched to 1/2 mile:						
US EPA	CERCLIS / NFRAP	Sites currently or formerly under review by US EPA	0	0	1	-
US EPA	TSD	RCRA permitted treatment, storage, disposal facilities	0	0	0	-
STATE REG CO	LUST	Leaking Underground Storage Tanks	1	0	3	-
STATE/ REG/CO	SWLF	Permitted as solid waste landfills, incinerators, or transfer stations	0	1	0	-
USGS/STATE	WATER WELLS	Federal and State Drinking Water Sources	0	0	0	-
C) Databases searched to 1/4 mile:						
US EPA	RCRA Viol	RCRA violations/enforcement actions	0	1	-	-
US EPA	TRIS	Toxic Release Inventory database	0	0	-	-
STATE	UST/AST	Registered underground or aboveground storage tanks	3	2	-	-
D) Databases searched to 1/8 mile:						
US EPA	ERNS	Emergency Response Notification System of spills	2	-	-	-
US EPA	GNRTR	RCRA registered small or large generators of hazardous waste	3	-	-	-

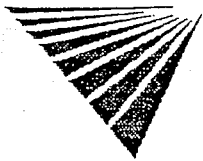


LIMITATION OF LIABILITY

NOTES

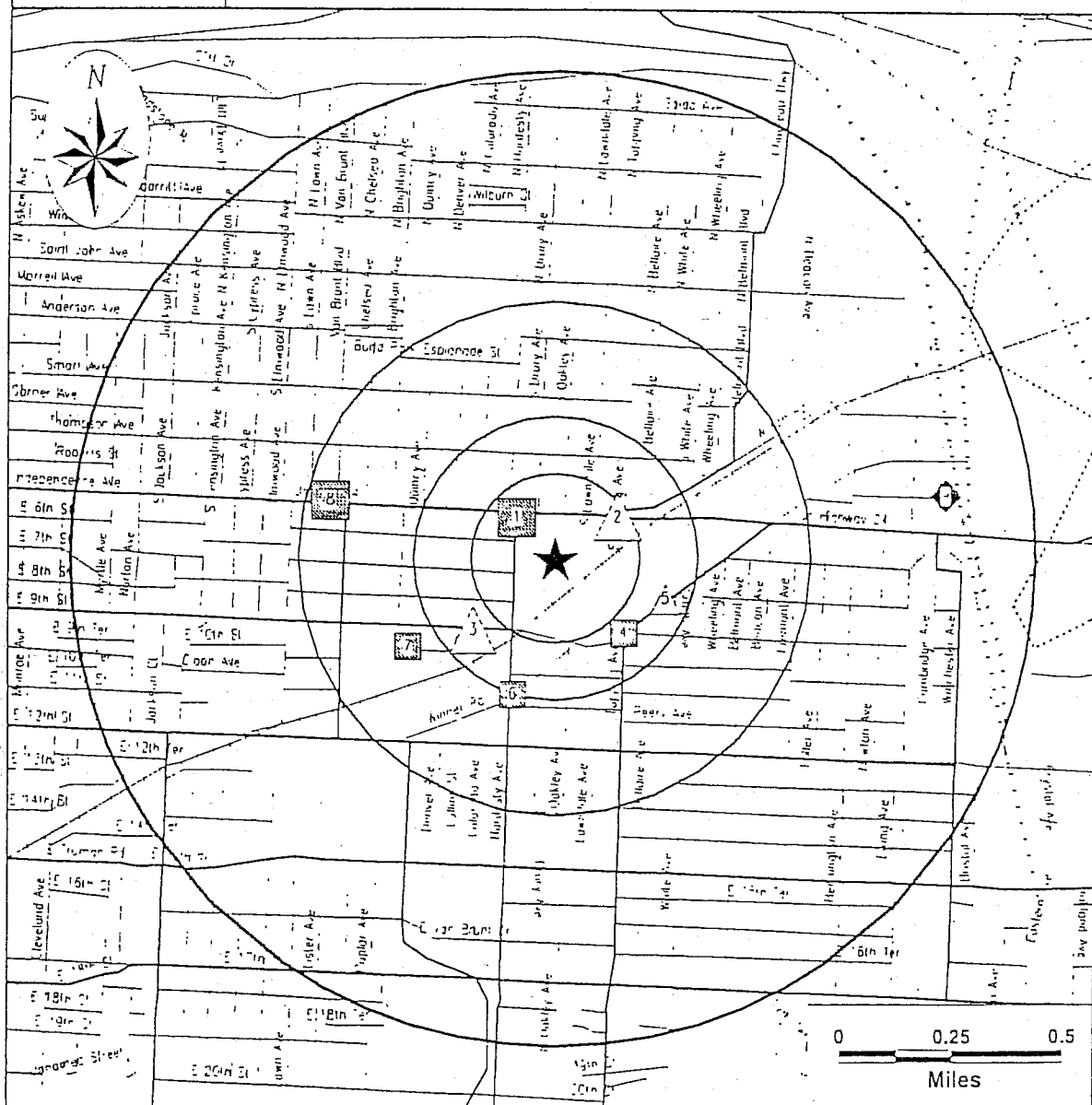


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SITE ASSESSMENT PLUS REPORT

Map of Sites within One Mile



Subject Site	Category:	A	B	C	D
	Databases Searched to:	1 mi.	1/2 mi.	1/4 mi.	1/8 mi.
★	Single Sites	◆	◆	△	○
	Multiple Sites	◆	◆	△	○
—	Highways and Major Roads	NPL, SPL, CORRACTS (TSD)	CERCLIS, NFRAP, TSD, LUST, SWLF, SCL	RCRA VIOL, TRIS, UST	ERNS, GENERATORS
—	Roads				
—	Railroads				
—	Rivers or Water Bodies				
—	Utilities				

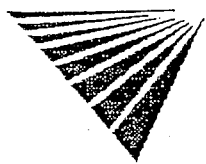
If additional databases are listed in the cover page of the report they are also displayed on this map. The map symbols used corresponds to the database category letter A,B,C,D

For More Information Call VISTA Information Solutions, Inc. at 1 - 800 - 767 - 0403

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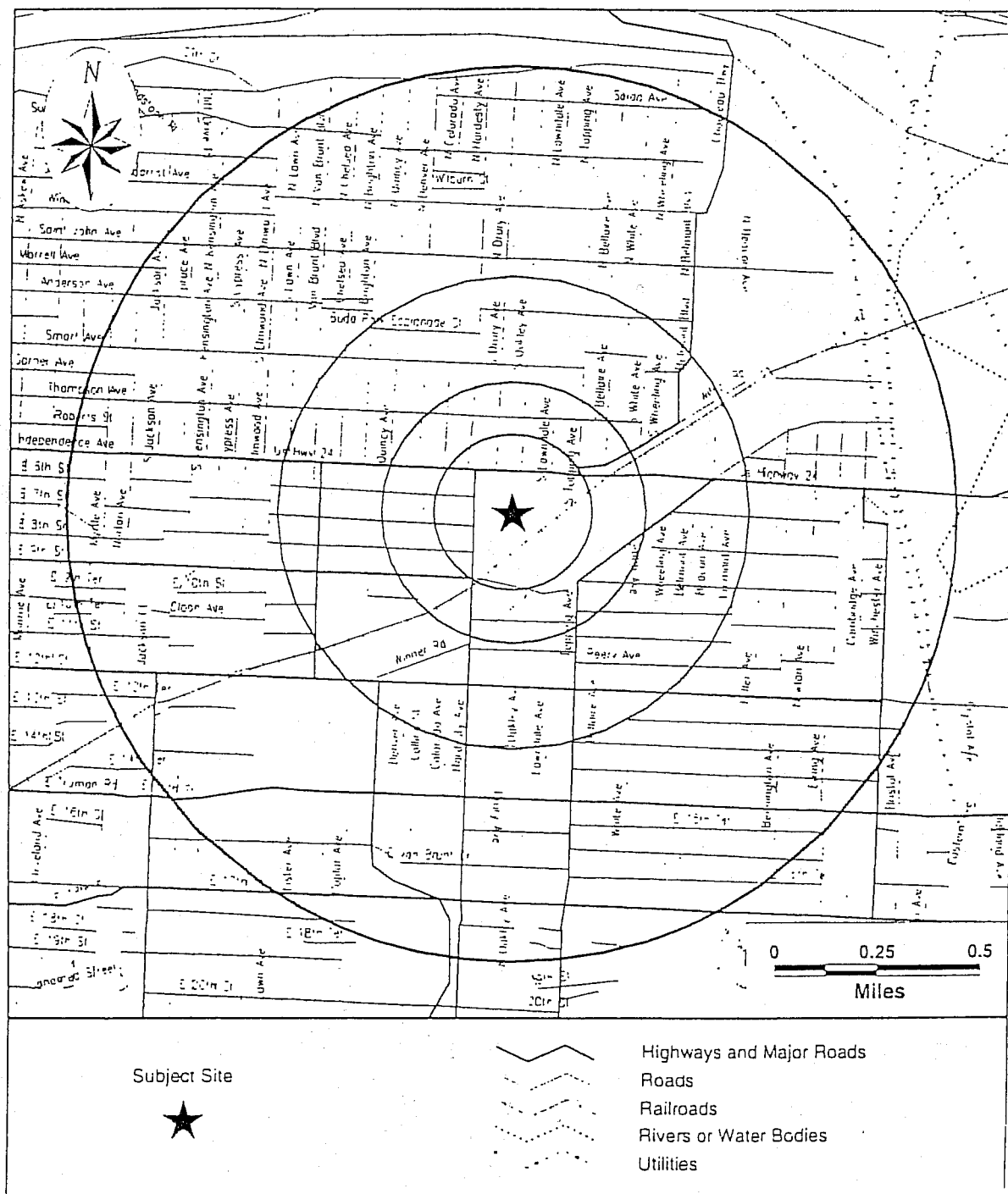
Date of Report: May 20, 1999

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SITE ASSESSMENT PLUS REPORT

Street Map

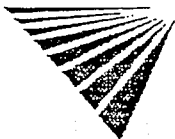


SITE ASSESSMENT PLUS REPORT

SITE INVENTORY

MAP ID	PROPERTY AND THE ADJACENT AREA (within 1/8 mile)	VISTA ID DISTANCE DIRECTION	A		B			C			D			
			NPL	CORRACTIS	SPL	CERCLIS/NI RAP	TSD	LUST	SWLF	WATER WELLS	ICRA VIOL	TRIS	UST/AST	ERNS
1A	FED AVIATION ADMIN STAGING ARG 633 HARDESTY KANSAS CITY, MO 64124	149780 0.05 MI NW												X
1A	619 HARDESTY KANSAS CITY, MO 64124	8097292 0.05 MI NW											X	
1A	NATIONAL WEATHER SRV TRAINING 617 HARDESTY AVE. BLDG 9 KANSAS CITY, MO 64124	5988050 0.05 MI NW											X	
1A	FEDERAL COMPLEX 607 HARDESTY AVE KANSAS CITY, MO 64123	1911114 0.06 MI NW										X		
1A	MARINE CORPS RESERVE SPT CMD 607 HARDESTY BLDG 11 DOOR 4 KANSAS CITY, MO 64123	5244391 0.06 MI NW												X
1B	WALGREENS 5420 INDEPENDENCE AVENUE KANSAS CITY, MO 64123	12379985 0.08 MI NW										X		
1B	WALGREENS 5420 INDEPENDENCE AVENUE KANSAS CITY, MO 64123	8041731 0.08 MI NW					X							
2A	TOTAL #4403 5712 INDEPENDENCE AVENUE KANSAS CITY, MO 64123	7480825 0.09 MI NE										X		
2B	CYCLE CHROME INC 5801 INDEPENDENCE AVE KANSAS CITY, MO 64123	2951620 0.12 MI E												X

MAP ID	SITES IN THE SURROUNDING AREA (within 1/8 - 1/4 mile)	VISTA ID DISTANCE DIRECTION	A			B				C		D		
			NPL	CORRACTIS	SPL	CLRCLIS/NI RAP	TSD	LUST	SWLF	WATER WELLS	ICRA VIOL	TRIS	UST/AST	ERNS
3A	HARDING GLASS 5301 E 9TH STREET KANSAS CITY, MO 64124	1909194 0.16 MI SW											X	
3B	DANIELS MCCRAY LUMBER CO 5201 E 9TH STREET KANSAS CITY, MO 64127	2486926 0.20 MI SW											X	



X = search criteria; * = tag-along (beyond search criteria).

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MAP ID	SITES IN THE SURROUNDING AREA (within 1/8 - 1/4 mile)	VISTA ID: DISTANCE DIRECTION	A		B				C		D				
			NPL	CORRACTS	SPL	CERCLIS/FRAP	TSD	LUST	SWLF	WATER WELLS	RCRA VIOL	TRIS	UST/AST	LRNS	GNRTR
4	TOPPING WINNER RD. DEMOLITION LF , MO	5244189 0.16 MI SE								X					
5	PERCY KENT BAG CO 5910 WINNER RD KANSAS CITY, MO 64125	325672 0.20 MI E										X			

MAP ID	SITES IN THE SURROUNDING AREA (within 1/4 - 1/2 mile)	VISTA ID DISTANCE DIRECTION	A		B				C		D			
			NPL	CORRACTS	SPL	CERCLIS/FRAP	TSD	LUST	SWLF	WATER WELLS	RCRA VIOL	TRIS	UST/AST	ERNS
6	GIT N GO 5402 WINNER ROAD KANSAS CITY, mo 64127	4849704 0.25 MI S						X						
7	PCB DISPOSAL SYSTEMS INC 5020 E 10TH ST KANSAS CITY, MO 64127	3412972 0.32 MI SW				X								
8	HANDY STOP #307 4815 INDEPENDENCE AVE KANSAS CITY, mo 64124	6753785 0.42 MI W						X						
8	AMOCO OIL SS #5033 4722 INDEPENDENCE AVE KANSAS CITY, mo 64124	777987 0.47 MI W						X						

MAP ID	SITES IN THE SURROUNDING AREA (within 1/2 - 1 mile)	VISTA ID DISTANCE DIRECTION	A		B				C		D				
			NPL	CORRACTS	SPL	CERCLIS/FRAP	TSD	LUST	SWLF	WATER WELLS	RCRA VIOL	TRIS	UST/AST	ERNS	GNRTR
9	ARMCO INC 7000 ROBERTS KANSAS CITY, MO 64125	265481 0.81 MI E		X	X										



X = search criteria; • = tag-along (beyond search criteria).

For more information call VISTA Information Solutions, Inc. at 1 - 800 - 767 - 0403.

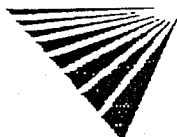
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UNMAPPED SITES	VISTA ID	A		B				C			D			
		NPL	CORRACTS	SPL	CLRLIS/NIRAP	TSD	LUST	SWLF	WATER WELLS	RCRA VIOL	TRIS	UST/AST	EHNS	GNRTR
KERR MCGEE CHEMICAL CORP 2300 OAKLAND KANSAS CITY, MO 64126	227384		X							X				*
ALL BRITE GAL BROSKE BROTHERS LAGOON 39TH BELMONT AVE KANSAS CITY, MO 64127	6651646				X									
LAKE CITY ARMY AMMUNITION PLANT JCT HWY 7 78 INDEPENDENCE, MO 64051	6651469		X							*		*		*
KPL GAS SERVICE INDEPENDENCE PLANT 23RD PLEASANT INDEPENDENCE, MO 64051	1617815											X		



X = search criteria; * = tag-along (beyond search criteria).

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SITE ASSESSMENT PLUS REPORT

DETAILS

PROPERTY AND THE ADJACENT AREA (within 1/8 mile)

VISTA Address*:	FED AVIATION ADMIN STAGING ARG 633 HARDESTY KANSAS CITY, MO 64124	VISTA ID#:	149780	Map ID 1A	
		Distance/Direction:	0.05 MI / NW		
		Plotted as:	Point		
RCRA-LqGen - RCRA-Large Generator / SRC# 5596		EPA ID:	MO2210090062		
Agency Address:	FED AVIATION ADMIN STAGING ARG 633 HARDESTY BLDG NO 6 KANSAS CITY, MO 64124				
Generator Class:	Generates at least 1000 kg./month of non-acutely hazardous waste (or 1 kg./month of acutely hazardous waste).				
VISTA Address*:	619 HARDESTY KANSAS CITY, MO 64124	VISTA ID#:	8097292	Map ID 1A	
		Distance/Direction:	0.05 MI / NW		
		Plotted as:	Point		
ERNS - Emergency Response Notification System / SRC# 5598		EPA/Agency ID:	N/A		
Agency Address:	619 HARDESTY KANSAS CITY, MO				
Spill Date Time:	MAY 1, 1987 NOT REPORTED				
Spill Location:	619 HARDESTY				
Material Spilled:	PAINT THINNER, 78.00 (GAL)				
Fields Not Reported:	Case Number, Source Agency, Discharger Name, Discharger Org, Discharger Phone, Waterway Affected				
Air Release:	Land Release:	Water Release:	Ground Release:	Facility Release:	Other Release:
NO	NO	NO	NO	NO	NO
VISTA Address*:	NATIONAL WEATHER SRV TRAINING 617 HARDESTY AVE. BLDG 9 KANSAS CITY, MO 64124	VISTA ID#:	5988050	Map ID 1A	
		Distance/Direction:	0.05 MI / NW		
		Plotted as:	Point		
ERNS - Emergency Response Notification System / SRC# 5598		Agency ID:	04143H 1730		
Agency Address:	SAME AS ABOVE				
Spill Date Time:	APRIL 14, 1993 12.00.00 PM				
Case Number:	04143H 1730				
Spill Location:	617 HARDESTY AVE BLDG 9				
Source Agency:	E				
Discharger Org:	NATIONAL WEATHER SRV TRAINING				
Material Spilled:	ASBESTOS, 0.00 (UNK)				
Fields Not Reported:	Discharger Name, Discharger Phone, Waterway Affected				
Air Release:	Land Release:	Water Release:	Ground Release:	Facility Release:	Other Release:
NO	NO	NO	NO	NO	NO



* VISTA address includes enhanced city and ZIP.

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PROPERTY AND THE ADJACENT AREA (within 1/8 mile) CONT.

ERNS - Emergency Response Notification System / SRC# 5598 Agency ID: 04143H 1730
 Agency Address: SAME AS ABOVE
 Spill Date Time: APRIL 14, 1993 12:00:00 PM
 Case Number: 04143H 1730
 Spill Location: 617 HARDESTY AVE. BLDG 9
 Source Agency: E
 Discharger Org: NATIONAL WEATHER SRV TRAINING
 Material Spilled: ASBESTOS, 0.00 (UNK)
 Fields Not Reported: Discharger Name, Discharger Phone, Waterway Affected

Air Release: NO Land Release: NO Water Release: NO Ground Release: NO Facility Release: NO Other Release: NO

ERNS - Emergency Response Notification System / SRC# 5598 Agency ID: 04143H 1730
 Agency Address: SAME AS ABOVE
 Spill Date Time: APRIL 14, 1993 12:00:00 PM
 Case Number: 04143H 1730
 Spill Location: 617 HARDESTY AVE. BLDG 9
 Source Agency: E
 Discharger Org: NATIONAL WEATHER SRV TRAINING
 Material Spilled: ASBESTOS, 0.00 (UNK)
 Fields Not Reported: Discharger Name, Discharger Phone, Waterway Affected

Air Release: NO Land Release: NO Water Release: NO Ground Release: NO Facility Release: NO Other Release: NO

VISTA Address:	FEDERAL COMPLEX 607 HARDESTY AVE KANSAS CITY, MO 64123	VISTA ID#:	1911114
		Distance/Direction:	0.06 MI / NW
		Plotted as:	Point

Map ID

1A

STATE UST - State Underground Storage Tank / SRC# 5735 Agency ID: ST0010970

Agency Address: FEDERAL COMPLEX
607 HARDESTY AVE
KANSAS CITY, MO 64124
 Underground Tanks: 3
 Aboveground Tanks: NOT REPORTED
 Tanks Removed: 3

Tank ID:	1U	Tank Status:	REMOVED
Tank Contents:	OTHER	Leak Monitoring:	NOT AVAILABLE
Tank Age:	NOT REPORTED	Tank Piping:	GALVANIZED STEEL
Tank Size (Units):	23000 (GALLONS)	Tank Material:	STEEL, INTERIOR PROTECTION-UNKNOWN, EXTERIOR PROTECTION-UNKNOWN
Tank ID:	2U	Tank Status:	REMOVED
Tank Contents:	OTHER	Leak Monitoring:	NOT AVAILABLE
Tank Age:	NOT REPORTED	Tank Piping:	GALVANIZED STEEL
Tank Size (Units):	23000 (GALLONS)	Tank Material:	STEEL, INTERIOR PROTECTION-UNKNOWN, EXTERIOR PROTECTION-UNKNOWN
Tank ID:	3U	Tank Status:	REMOVED
Tank Contents:	OTHER	Leak Monitoring:	NOT AVAILABLE
Tank Age:	NOT REPORTED	Tank Piping:	GALVANIZED STEEL
Tank Size (Units):	178000 (GALLONS)	Tank Material:	FRP CLAD STEEL



PROPERTY AND THE ADJACENT AREA (within 1/8 mile) CONT.

VISTA Address:	MARINE CORPS RESERVE SPT CMD 607 HARDESTY BLDG 11 DOOR 4 KANSAS CITY, MO 64123	VISTA ID#:	5244391
		Distance/Direction:	0.06 MI / NW
		Plotted as:	Point
RCRA-SmGen - RCRA-Small Generator / SRC# 5596		EPA ID:	MO0000565515

Map ID

1A

Agency Address: MARINE CORPS RESERVE SPT CMD
607 HARDESTY BLDG 11 DOOR 4
KANSAS CITY, MO 64124

Generator Class: Generates 100 kg./month but less than 1000 kg./month of non-acutely hazardous waste

VISTA Address:	WALGREENS 5420 INDEPENDENCE AVENUE KANSAS CITY, MO 64123	VISTA ID#:	12379985
		Distance/Direction:	0.08 MI / NW
		Plotted as:	Point
STATE UST - State Underground Storage Tank / SRC# 5735		Agency ID:	ST0001938

Map ID

1B

Agency Address: SAME AS ABOVE

Underground Tanks: 4

Aboveground Tanks: NOT REPORTED

Tanks Removed: 4

Tank ID:	1U	Tank Status:	REMOVED
Tank Contents:	GASOLINE (UNSPECIFIED)	Leak Monitoring:	MONITOR PRESENT
Tank Age:	NOT REPORTED	Tank Piping:	BARE STEEL,SUCTION
Tank Size (Units):	6000 (GALLONS)	Tank Material:	STEEL,INTERIOR PROTECTION-NONE,EXTERIOR PROTECTION-NONE
Tank ID:	2U	Tank Status:	REMOVED
Tank Contents:	GASOLINE (UNSPECIFIED)	Leak Monitoring:	MONITOR PRESENT
Tank Age:	NOT REPORTED	Tank Piping:	BARE STEEL
Tank Size (Units):	6000 (GALLONS)	Tank Material:	STEEL,INTERIOR PROTECTION-NONE,EXTERIOR PROTECTION-NONE
Tank ID:	3U	Tank Status:	REMOVED
Tank Contents:	GASOLINE (UNSPECIFIED)	Leak Monitoring:	MONITOR PRESENT
Tank Age:	NOT REPORTED	Tank Piping:	BARE STEEL,SUCTION
Tank Size (Units):	2500 (GALLONS)	Tank Material:	STEEL,INTERIOR PROTECTION-NONE,EXTERIOR PROTECTION-NONE
Tank ID:	4U	Tank Status:	REMOVED
Tank Contents:	USED OIL	Leak Monitoring:	MONITOR PRESENT
Tank Age:	NOT REPORTED	Tank Piping:	BARE STEEL,SUCTION
Tank Size (Units):	560 (GALLONS)	Tank Material:	STEEL,INTERIOR PROTECTION-NONE,EXTERIOR PROTECTION-NONE

VISTA Address:	WALGREENS 5420 INDEPENDENCE AVENUE KANSAS CITY, MO 64123	VISTA ID#:	8041731
		Distance/Direction:	0.08 MI / NW
		Plotted as:	Point
STATE LUST - State Leaking Underground Storage Tank / SRC# 5301		EPA/Agency ID:	N/A

Map ID

1B

Agency Address: WALGREENS
5420 INDEPENDENCE AVENUE
KANSAS CITY, MO

Facility ID: ST0001938

Leak ID#: LU05871

Description / Comment: FACILITY STATUS INACTIVE



PROPERTY AND THE ADJACENT AREA (within 1/8 mile) CONT.

VISTA Address:	TOTAL #4403 5712 INDEPENDENCE AVENUE KANSAS CITY, MO 64123	VISTA ID#:	7480825
		Distance/Direction:	0.09 MI / NE
		Plotted as:	Point
STATE UST - State Underground Storage Tank / SRC# 5735		Agency ID:	ST0003305

Map ID

2A

Agency Address:	SAME AS ABOVE		
Underground Tanks:	9		
Aboveground Tanks:	NOT REPORTED		
Tanks Removed:	5		
Tank ID:	1U	Tank Status:	REMOVED
Tank Contents:	GASOLINE (UNSPECIFIED)	Leak Monitoring:	NOT AVAILABLE
Tank Age:	32	Tank Piping:	GALVANIZED STEEL
Tank Size (Units):	10000 (GALLONS)	Tank Material:	STEEL, INTERIOR PROTECTION-NONE, EXTERIOR PROTECTION-PAINTED
Tank ID:	2U	Tank Status:	REMOVED
Tank Contents:	GASOLINE (UNSPECIFIED)	Leak Monitoring:	NOT AVAILABLE
Tank Age:	32	Tank Piping:	GALVANIZED STEEL
Tank Size (Units):	10000 (GALLONS)	Tank Material:	STEEL, INTERIOR PROTECTION-NONE, EXTERIOR PROTECTION-PAINTED
Tank ID:	3U	Tank Status:	REMOVED
Tank Contents:	GASOLINE (UNSPECIFIED)	Leak Monitoring:	NOT AVAILABLE
Tank Age:	32	Tank Piping:	GALVANIZED STEEL
Tank Size (Units):	10000 (GALLONS)	Tank Material:	STEEL, INTERIOR PROTECTION-NONE, EXTERIOR PROTECTION-PAINTED
Tank ID:	4U	Tank Status:	REMOVED
Tank Contents:	GASOLINE (UNSPECIFIED)	Leak Monitoring:	NOT AVAILABLE
Tank Age:	32	Tank Piping:	GALVANIZED STEEL
Tank Size (Units):	10000 (GALLONS)	Tank Material:	STEEL, INTERIOR PROTECTION-NONE, EXTERIOR PROTECTION-PAINTED
Tank ID:	5U	Tank Status:	REMOVED
Tank Contents:	GASOLINE (UNSPECIFIED)	Leak Monitoring:	NOT AVAILABLE
Tank Age:	32	Tank Piping:	GALVANIZED STEEL
Tank Size (Units):	10000 (GALLONS)	Tank Material:	STEEL, INTERIOR PROTECTION-NONE, EXTERIOR PROTECTION-PAINTED
Tank ID:	6U	Tank Status:	CURRENT
Tank Contents:	GASOLINE (UNSPECIFIED)	Leak Monitoring:	MONITOR PRESENT
Tank Age:	9	Tank Piping:	FIBERGLASS REINFORCED PLASTIC, PRESSURIZED
Tank Size (Units):	8000 (GALLONS)	Tank Material:	STI-P3, EXTERIOR PROTECTION-CATHODICALLY PROTECTED
Tank ID:	7U	Tank Status:	CURRENT
Tank Contents:	GASOLINE (UNSPECIFIED)	Leak Monitoring:	MONITOR PRESENT
Tank Age:	9	Tank Piping:	FIBERGLASS REINFORCED PLASTIC, PRESSURIZED
Tank Size (Units):	10000 (GALLONS)	Tank Material:	STI-P3, EXTERIOR PROTECTION-CATHODICALLY PROTECTED
Tank ID:	8U	Tank Status:	CURRENT
Tank Contents:	GASOLINE (UNSPECIFIED)	Leak Monitoring:	MONITOR PRESENT
Tank Age:	9	Tank Piping:	FIBERGLASS REINFORCED PLASTIC, PRESSURIZED
Tank Size (Units):	10000 (GALLONS)	Tank Material:	STI-P3, EXTERIOR PROTECTION-CATHODICALLY PROTECTED



* VISTA address includes enhanced city and ZIP.
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PROPERTY AND THE ADJACENT AREA (within 1/8 mile) CONT.

Tank ID:	9U	Tank Status:	CURRENT
Tank Contents:	GASOLINE (UNSPECIFIED)	Leak Monitoring:	MONITOR PRESENT
Tank Age:	9	Tank Piping:	FIBERGLASS REINFORCED PLASTIC, PRESSURIZED
Tank Size (Units):	12000 (GALLONS)	Tank Material:	STI-P1, EXTERIOR PROTECTION-CATHODICALLY PROTECTED

VISTA Address:	CYCLE CHROME INC 5801 INDEPENDENCE AVE KANSAS CITY, MO 64123	VISTA ID#:	2951620
		Distance/Direction:	0.12 MI / E
		Plotted as:	Point
RCRA-SmGen - RCRA-Small Generator / SRC# 5596		EPA ID:	MOD985804970

Map ID

2B

Agency Address: CYCLE CHROME INC
5801 INDEPENDENCE AVE
LEES SUMMIT, MO 64063

Generator Class: Generates 100 kg/month but less than 1000 kg/month of non-acutely hazardous waste

SITES IN THE SURROUNDING AREA (within 1/8 - 1/4 mile)

VISTA Address:	HARDING GLASS 5301 E 9TH STREET KANSAS CITY, MO 64124	VISTA ID#:	1909194
		Distance/Direction:	0.16 MI / SW
		Plotted as:	Point
STATE UST - State Underground Storage Tank / SRC# 5735		Agency ID:	ST0003087

Map ID

3A

Agency Address: SAME AS ABOVE

Underground Tanks: 1

Aboveground Tanks: NOT REPORTED

Tanks Removed: 1

Tank ID:	1U	Tank Status:	REMOVED
Tank Contents:	GASOLINE (UNSPECIFIED)	Leak Monitoring:	NOT AVAILABLE
Tank Age:	NOT REPORTED	Tank Piping:	GALVANIZED STEEL
Tank Size (Units):	1000 (GALLONS)	Tank Material:	STEEL, INTERIOR PROTECTION-UNKNOWN, EXTERIOR PROTECTION-UNKNOWN

VISTA Address:	DANIELS MCCRAY LUMBER CO 5201 E 9TH STREET KANSAS CITY, MO 64127	VISTA ID#:	2486926
		Distance/Direction:	0.20 MI / SW
		Plotted as:	Point
STATE UST - State Underground Storage Tank / SRC# 5735		Agency ID:	ST0007672

Map ID

3B

Agency Address: DANIELS MCCRAY LUMBER CO
5201 E 9TH STREET
KANSAS CITY, MO

Underground Tanks: 1

Aboveground Tanks: NOT REPORTED

Tanks Removed: 1

Tank ID:	1U	Tank Status:	REMOVED
Tank Contents:	GASOLINE (UNSPECIFIED)	Leak Monitoring:	NOT AVAILABLE
Tank Age:	NOT REPORTED	Tank Piping:	GALVANIZED STEEL
Tank Size (Units):	10000 (GALLONS)	Tank Material:	STEEL, INTERIOR PROTECTION-UNKNOWN, EXTERIOR PROTECTION-UNKNOWN



* VISTA address includes enhanced city and ZIP.

For more information call VISTA Information Solutions, Inc. at 1-800-767-0403.

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SITES IN THE SURROUNDING AREA (within 1/8 - 1/4 mile) CONT.

VISTA Address*:	TOPPING WINNER RD. DEMOLITION LF MO	VISTA ID#:	5244189	Map ID
		Distance/Direction:	0.16 MI / SE	4
		Plotted as:	Point	
STATE SWLF - Solid Waste Landfill / SRC# 2573		Agency ID:	0209505	

Agency Address: SAME AS ABOVE
 Facility Type: CONSTRUCTION/DEMOLITION
 Facility Status: INACTIVE
 Facility Life: NOT REPORTED
 Permit Status: NOT AVAILABLE
 Waste: NOT REPORTED

STATE SWLF - Solid Waste Landfill / SRC# 5520		Agency ID:	0209505
Agency Address:	SAME AS ABOVE		
Facility Type:	CONSTRUCTION/DEMOLITION		
Facility Status:	NOT AVAILABLE		
Facility Life:	NOT REPORTED		
Permit Status:	CLOSED		
Waste:	NOT REPORTED		

VISTA Address*:	PERCY KENT BAG CO 5910 WINNER RD KANSAS CITY, MO 64125	VISTA ID#:	325672	Map ID
		Distance/Direction:	0.20 MI / E	5
		Plotted as:	Point	
RCRA-Violations / SRC# 5596		EPA ID:	MCD007122286	

Agency Address: PERCY KENT BAG CO INC
 5910 WINNER RD
 KANSAS CITY, MO 64125
 Enforcement Number: 198804060
 Enforcement Agency: State
 Action Date: APRIL 6, 1988
 Action Type: WRITTEN INFORMAL
 Penalty Assessed: NOT REPORTED
 Penalty Settlement: NOT REPORTED
 Violation Type: GENERATOR-OTHER REQUIREMENTS
 Violation Date: MARCH 23, 1988
 Violation Class: 2
 Actual Compliance Date: APRIL 20, 1988
 Scheduled Compliance Date: MAY 6, 1988

SITES IN THE SURROUNDING AREA (within 1/4 - 1/2 mile)

VISTA Address*:	GIT N GO 5402 WINNER ROAD KANSAS CITY, mo 64127	VISTA ID#:	4849704	Map ID
		Distance/Direction:	0.25 MI / S	6
		Plotted as:	Point	
STATE LUST - State Leaking Underground Storage Tank / SRC# 5301		EPA/Agency ID:	N/A	

Agency Address: GIT N GO
 5402 WINNER ROAD
 KANSAS CITY, mo
 ST
 Facility ID:
 Leak ID#: LU04257
 Description / Comment: FACILITY STATUS: ACTIVE



* VISTA address includes enhanced city and ZIP.

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SITES IN THE SURROUNDING AREA (within 1/4 - 1/2 mile) CONT.

VISTA Address*:	PCB DISPOSAL SYSTEMS INC 5020 E 10TH ST KANSAS CITY, MO 64127	VISTA ID#:	3412972
		Distance/Direction:	0.32 MI / SW
		Plotted as:	Point

Map ID

7

NFRAP / SRC# 5791	EPA ID:	MCD980852255
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Agency Address:	SAME AS ABOVE
EPA Region:	7
Congressional District:	5
Federal Facility:	Agency Code ()
Facility Ownership:	OTHER
Site Incident Category:	unknown
Federal Facility Docket:	SITE IS NOT INCLUDED ON THE DOCKET
NPL Status:	NOT ON NPL
Incident Type:	Unknown
Proposed NPL Update #:	0
Final NPL Update #:	0
Financial Management System ID:	076N
Latitude:	3906044
Longitude:	9431199
Lat/Long Source:	RESEARCHED BY THE REGION AND MANUALLY ENTERED
Lat/Long Accuracy:	Unknown
Dioxin Tier:	Unknown
USGS Hydro Unit:	10300101
RCRA Indicator:	YES (RCRA FACILITY)
Unit Id:	0
Unit Name:	ENTIRE SITE

Type:	DISCOVERY	Lead Agency:	EPA FUND-FINANCED
Qualifier:	UNKNOWN	Category:	Unknown
Name:	NOT REPORTED	Actual Start Date:	NOT REPORTED
Plan Status:	Unknown	Actual Completion Date:	APRIL 2, 1985
Type:	PRELIMINARY ASSESSMENT	Lead Agency:	EPA FUND-FINANCED
Qualifier:	LOWER PRIORITY	Category:	Unknown
Name:	NOT REPORTED	Actual Start Date:	UNKNOWN
Plan Status:	PRIMARY	Actual Completion Date:	AUGUST 1, 1986
Type:	SCREENING SITE INSPECTION	Lead Agency:	EPA FUND-FINANCED
Qualifier:	NO FURTHER REMEDIAL ACTION PLANNED	Category:	Unknown
Name:	NOT REPORTED	Actual Start Date:	JULY 2, 1986
Plan Status:	PRIMARY	Actual Completion Date:	AUGUST 1, 1986

VISTA Address*:	HANDY STOP #307 4815 INDEPENDENCE AVE KANSAS CITY, mo 64124	VISTA ID#:	6753785
		Distance/Direction:	0.42 MI / W
		Plotted as:	Point

Map ID

8

STATE LUST - State Leaking Underground Storage Tank / SRC# 5301	EPA/Agency ID:	N/A
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Agency Address:	HANDY STOP #307 4815 INDEPENDENCE AVE KANSAS CITY, mo ST0003091
Facility ID:	LU05652
Leak ID#:	
Description / Comment:	FACILITY STATUS INACTIVE



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SITES IN THE SURROUNDING AREA (within 1/4 - 1/2 mile) CONT.

VISTA Address*:	AMOCO OIL SS #5033 4722 INDEPENDENCE AVE KANSAS CITY, mo 64124	VISTA ID#:	777987
		Distance/Direction:	0.47 MI / W
		Plotted as:	Point
STATE LUST - State Leaking Underground Storage Tank / SRC# 5301		EPA/Agency ID:	N/A
Agency Address:	AMOCO OIL SS #5033 4722 INDEPENDENCE AVE KANSAS CITY, mo ST0010219		
Facility ID:	LU02144		
Leak ID#:	FACILITY STATUS: INACTIVE		
Description / Comment:			
STATE LUST - State Leaking Underground Storage Tank / SRC# 5301		EPA/Agency ID:	N/A
Agency Address:	AMOCO OIL SS #5033 4722 INDEPENDENCE AVE KANSAS CITY, mo ST0010219		
Facility ID:	LU02208		
Leak ID#:	FACILITY STATUS: ACTIVE		
Description / Comment:			

Map ID

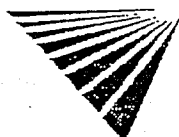
8

SITES IN THE SURROUNDING AREA (within 1/2 - 1 mile)

VISTA Address*:	ARMCO INC 7000 ROBERTS KANSAS CITY, MO 64125	VISTA ID#:	26548
		Distance/Direction:	0.81 MI / E
		Plotted as:	Point
SPL - State Equivalent Priority List / SRC# 5519		EPA/Agency ID:	N/A
Agency Address:	ARMCO 7000 WINNER RD KANSAS CITY, MO 64125 UNKNOWN		
Status:	NOT AVAILABLE		
Facility Type:	NOT AVAILABLE		
Lead Agency:	REGISTERED		
State Status:	CADMIUM		
Pollutant 1:	LEAD		
Pollutant 2:	UNKNOWN		
Pollutant 3:			

Map ID

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* VISTA address includes enhanced city and ZIP.

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SITES IN THE SURROUNDING AREA (within 1/2 - 1 mile) CONT.

CORRACTS / SRC# 5596		EPA ID:	MOD007118029
Agency Address:	ARMCO INC 7000 ROBERTS ST KANSAS CITY, MO 64125		
Prioritization Status:	HIGH		
RCRA Facility Assessment Completed:	YES		
Notice of Contamination:	NO		
Determination of need For a RFI (RCRA Facility Investigation):	YES		
RFI Imposed:	YES		
RFI Workplan Notice of Deficiency Issued:	NO		
RFI Workplan Approved:	YES		
RFI Report Received:	NO		
RFI Approved:	NO		
No Further Corrective Action at this Time:	NO		
Stabilization Measures Evaluation:	YES		
CMS (Corrective Measure Study) Imposition:	NO		
CMS Workplan Approved:	NO		
CMS Report Received:	NO		
CMS Approved:	NO		
Date for Remedy Selection (CM Imposed):	NO		
Corrective Measures Design Approved:	NO		
Corrective Measures Investigation Workplan Approved:	NO		
Certification of Remedy Completion:	NO		
Stabilization Measures Implementation:	YES		
Stabilization Measures Completed:	YES		
Corrective Action Process Termination:	NO		
RCRA-TSD CORRACTS / SRC# 5596		EPA ID:	MOD007118029
Agency Address:	ARMCO INC 7000 ROBERTS ST KANSAS CITY, MO 64125		
Off-Site Waste Received:	NO		
Land Disposal:	YES		
Incinerator:	NO		
Storage/Treatment:	NO		



UNMAPPED SITES

VISTA Address*:	KERR MCGEE CHEMICAL CORP 2300 OAKLAND KANSAS CITY, MO 64126	VISTA ID#:	227384
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CORRACTS / SRC# 5596		EPA ID:	MOD007128978
Agency Address:	SAME AS ABOVE		
Prioritization Status:	HIGH		
RCRA Facility Assessment Completed:	YES		
Notice of Contamination:	NO		
Determination of need For a RFI (RCRA Facility Investigation):	YES		
RFI Imposed:	YES		
RFI Workplan Notice of Deficiency Issued:	NO		
RFI Workplan Approved:	YES		
RFI Report Received:	NO		
RFI Approved:	YES		
No Further Corrective Action at this Time:	NO		
Stabilization Measures Evaluation:	YES		
CMS (Corrective Measure Study) Imposition:	NO		
CMS Workplan Approved:	YES		
CMS Report Received:	NO		
CMS Approved:	YES		
Date for Remedy Selection (CM Imposed):	NO		
Corrective Measures Design Approved:	NO		
Corrective Measures Investigation Workplan Approved:	NO		
Certification of Remedy Completion:	NO		
Stabilization Measures Implementation:	YES		
Stabilization Measures Completed:	YES		
Corrective Action Process Termination:	NO		

RCRA-TSD CORRACTS / SRC# 5596		EPA ID:	MOD007128978
Agency Address:	SAME AS ABOVE		
Off-Site Waste Received:	NO		
Land Disposal:	YES		
Incinerator:	NO		
Storage/Treatment:	NO		

VISTA Address*:	ALL BRITE GAL BROSKE BROTHERS LAGOON 39TH BELMONT AVE KANSAS CITY, MO 64127	VISTA ID#:	6853646
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NFRAP / SRC# 5791		EPA ID:	MOD981125381
Agency Address:	SAME AS ABOVE		
Alias Name:	ALL BRITE GAL VANDIZING (FINDS)		
Alias Street:	NOT REPORTED		
Alias City:	NOT REPORTED	Alias Latitude:	0
Alias Zip:	NOT REPORTED	Alias Longitude:	0
Alias State:	MO		
Alias Description:	FINDS EPA ID# MOD300010912		
Alias Name:	BROSKE BROTHERS INC (FINDS)		
Alias Street:	3915 FULLER		



* VISTA address includes enhanced city and ZIP.

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UNMAPPED SITES CONT.

Alias City:	KANSAS CITY	Alias Latitude:	0
Alias Zip:	64129	Alias Longitude:	0
Alias State:	MO		
Alias Description:	FINDS EPA ID# MOT300610972		
EPA Region:	7		
Congressional District:	5		
Federal Facility:	Agency Code ()		
Facility Ownership:	OTHER		
Site Incident Category:	unknown		
Federal Facility Docket:	SITE IS NOT INCLUDED ON THE DOCKET		
NPL Status:	NOT ON NPL		
Incident Type:	Unknown		
Proposed NPL Update #:	0		
Final NPL Update #:	0		
Financial Management System ID:	NOT REPORTED		
Latitude:	3903160		
Longitude:	9430420		
Lat/Long Source:	RESEARCHED BY THE REGION AND MANUALLY ENTERED		
Lat/Long Accuracy:	Unknown		
Dioxin Tier:	Unknown		
USGS Hydro Unit:	10300101		
RCRA Indicator:	YES (RCRA FACILITY)		
Unit Id:	0		
Unit Name:	ENTIRE SITE		
Type:	DISCOVERY	Lead Agency:	EPA FUND-FINANCED
Qualifier:	UNKNOWN	Category:	Unknown
Name:	NOT REPORTED	Actual Start Date:	NOT REPORTED
Plan Status:	Unknown	Actual Completion Date:	UNKNOWN
Type:	PRELIMINARY ASSESSMENT	Lead Agency:	EPA FUND-FINANCED
Qualifier:	NO FURTHER REMEDIAL ACTION PLANNED	Category:	Unknown
Name:	NOT REPORTED	Actual Start Date:	AUGUST 2, 1984
Plan Status:	PRIMARY	Actual Completion Date:	AUGUST 2, '984



* VISTA address includes enhanced city and ZIP.

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UNMAPPED SITES CONT.

VISTA Address:	LAKE CITY ARMY AMMUNITION PLANT JCT HWY 7 78 INDEPENDENCE, MO 64051	VISTA ID#:	6653469
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CORRACTS / SRC# 5596	EPA ID:	MO4213820489
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Agency Address: LAKE CITY ARMY AMMUNITION PLANT
JCT HWY 7 78
INDEPENDENCE, MO 640510250

Prioritization Status: HIGH

RCRA Facility Assessment Completed: YES

Notice of Contamination: NO

Determination of need For a RFI (RCRA Facility Investigation): YES

RFI Imposed: YES

RFI Workplan Notice of Deficiency Issued: NO

RFI Workplan Approved: NO

RFI Report Received: NO

RFI Approved: NO

No Further Corrective Action at this Time: YES

Stabilization Measures Evaluation: YES

CMS (Corrective Measure Study) Imposition: NO

CMS Workplan Approved: NO

CMS Report Received: NO

CMS Approved: NO

Date for Remedy Selection (CM Imposed): NO

Corrective Measures Design Approved: NO

Corrective Measures Investigation Workplan Approved: NO

Certification of Remedy Completion: NO

Stabilization Measures Implementation: NO

Stabilization Measures Completed: NO

Corrective Action Process Termination: NO

RCRA-TSD CORRACTS / SRC# 5596	EPA ID:	MO4213820489
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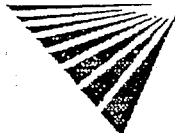
Agency Address: LAKE CITY ARMY AMMUNITION PLANT
JCT HWY 7 78
INDEPENDENCE, MO 640510250

Off-Site Waste Received: YES

Land Disposal: YES

Incinerator: YES

Storage/Treatment: YES



* VISTA address includes enhanced city and ZIP.

For more information call VISTA Information Solutions, Inc. at 1 - 800 - 767 - 0403.

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SITE ASSESSMENT PLUS REPORT

DESCRIPTION OF DATABASES SEARCHED

A) DATABASES SEARCHED TO 1 MILE

NPL
SRC#: 5789

VISTA conducts a database search to identify all sites within 1 mile of your property.
The agency release date for NPL was April, 1999.

The National Priorities List (NPL) is the EPA's database of uncontrolled or abandoned hazardous waste sites identified for priority remedial actions under the Superfund program. A site must meet or surpass a predetermined hazard ranking system score, be chosen as a state's top priority site, or meet three specific criteria set jointly by the US Dept of Health and Human Services and the US EPA in order to become an NPL site.

SPL
SRC#: 5519

VISTA conducts a database search to identify all sites within 1 mile of your property.
The agency release date for Quarterly Registry Log of Proposed Final Sites was October, 1998.

This database is provided by the Department of Natural Resources, Superfund Section. The agency may be contacted at: 573-751-3176.

CORRACTS
SRC#: 5596

VISTA conducts a database search to identify all sites within 1 mile of your property.
The agency release date for HWOMS/RCRIS was February, 1999.

The EPA maintains this database of RCRA facilities which are undergoing "corrective action". A "corrective action order" is issued pursuant to RCRA Section 3008 (h) when there has been a release of hazardous waste or constituents into the environment from a RCRA facility. Corrective actions may be required beyond the facility's boundary and can be required regardless of when the release occurred, even if it predates RCRA.

B) DATABASES SEARCHED TO 1/2 MILE

CERCLIS
SRC#: 5790

VISTA conducts a database search to identify all sites within 1/2 mile of your property.
The agency release date for CERCLIS was March, 1999.

The CERCLIS List contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL. The information on each site includes a history of all pre-remedial, remedial, removal and community relations activities or events at the site, financial funding information for the events, and unrestricted enforcement activities.

NFRAP
SRC#: 5791

VISTA conducts a database search to identify all sites within 1/2 mile of your property.
The agency release date for CERCLIS-NFRAP was March, 1999.

NFRAP sites may be sites where, following an initial investigation, no contamination was found, contamination was removed quickly, or the contamination was not serious enough to require Federal Superfund action or NPL consideration.



RCRA-TSD
SRC#: 5596

VISTA conducts a database search to identify all sites within 1/2 mile of your property.
The agency release date for HWDMS/RCRIS was February, 1999.

The EPA's Resource Conservation and Recovery Act (RCRA) Program identifies and tracks hazardous waste from the point of generation to the point of disposal. The RCRA Facilities database is a compilation by the EPA of facilities which report generation, storage, transportation, treatment or disposal of hazardous waste. RCRA TSDs are facilities which treat, store and/or dispose of hazardous waste.

SWLF
SRC#: 2573

VISTA conducts a database search to identify all sites within 1/2 mile of your property.
The agency release date for Inactive Solid Waste Facilities List was July, 1995.

This database is provided by the Department of Natural Resources, Waste Management Program. The agency may be contacted at: .

SWLF
SRC#: 5520

VISTA conducts a database search to identify all sites within 1/2 mile of your property.
The agency release date for Permitted Solid Waste Facilities List was November, 1998.

This database is provided by the Department of Natural Resources, Waste Management Program. The agency may be contacted at: 573-751-5401.

SWLF
SRC#: 5799

VISTA conducts a database search to identify all sites within 1/2 mile of your property.
The agency release date for Certified Hazardous Waste Recovery Facilities was March, 1999.

This database is provided by the Department of Natural Resources. The agency may be contacted at: 573-751-5401.

LUST
SRC#: 5301

VISTA conducts a database search to identify all sites within 1/2 mile of your property.
The agency release date for LUST Active Sites List was September, 1998.

This database is provided by the Department of Natural Resources, LUST Program. The agency may be contacted at: 573-751-6822.

Water Wells
SRC#: 5384

VISTA conducts a database search to identify all sites within 1/2 mile of your property.
The agency release date for USGS WATER WELLS was March, 1998.

The Ground Water Site Inventory (GWSI) database was provided by the United States Geological Survey (USGS). The database contains information for over 1,000,000 wells and other sources of groundwater which the USGS has studied, used, or otherwise had reason to document through the course of research. The agency may be contacted at 703-648-6819.

C) DATABASES SEARCHED TO 1/4 MILE

RCRA-Viols/Enfs
SRC#: 5596

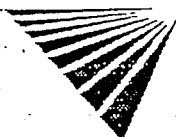
VISTA conducts a database search to identify all sites within 1/4 mile of your property.
The agency release date for HWDMS/RCRIS was February, 1999.

The EPA's Resource Conservation and Recovery Act (RCRA) Program identifies and tracks hazardous waste from the point of generation to the point of disposal. The RCRA Facilities database is a compilation by the EPA of facilities which report generation, storage, transportation, treatment or disposal of hazardous waste. RCRA Violators are facilities which have been cited for RCRA Violations at least once since 1980. RCRA Enforcements are enforcement actions taken against RCRA violators.

UST's
SRC#: 5735

VISTA conducts a database search to identify all sites within 1/4 mile of your property.
The agency release date for Underground Storage Tanks List was November, 1998.

This database is provided by the Department of Natural Resources. The agency may be contacted at: 573-751-6822; Caution: Many states do not require registration of heating oil tanks, especially those used for residential purposes.



TRIS
SRC#: 4946

VISTA conducts a database search to identify all sites within 1/4 mile of your property.
The agency release date for TRIS was January, 1998.

Section 313 of the Emergency Planning and Community Right-to-Know Act (also known as SARA Title III) of 1986 requires the EPA to establish an inventory of Toxic Chemicals emissions from certain facilities(Toxic Release Inventory System). Facilities subject to this reporting are required to complete a Toxic Chemical Release Form(Form R) for specified chemicals.

D) DATABASES SEARCHED TO 1/8 MILE

ERNS
SRC#: 5598

VISTA conducts a database search to identify all sites within 1/8 mile of your property.
The agency release date for ERNS was December, 1998.

The Emergency Response Notification System (ERNS) is a national database containing records from October 1986 to the release date above and is used to collect information for reported releases of oil and hazardous substances. The database contains information from spill reports made to federal authorities including the EPA, the US Coast Guard, the National Response Center and the Department of Transportation. The ERNS hotline number is (202) 260-2342.

RCRA-LgGen
SRC#: 5596

VISTA conducts a database search to identify all sites within 1/8 mile of your property.
The agency release date for HWDMs/RCRIS was February, 1999.

The EPA's Resource Conservation and Recovery Act (RCRA) Program identifies and tracks hazardous waste from the point of generation to the point of disposal. The RCRA Facilities database is a compilation by the EPA of facilities which report generation, storage, transportation, treatment or disposal of hazardous waste. RCRA Large Generators are facilities which generate at least 1000 kg/month of non-acutely hazardous waste (or 1 kg/month of acutely hazardous waste).

RCRA-SmGen
SRC#: 5596

VISTA conducts a database search to identify all sites within 1/8 mile of your property.
The agency release date for HWDMs/RCRIS was February, 1999.

The EPA's Resource Conservation and Recovery Act (RCRA) Program identifies and tracks hazardous waste from the point of generation to the point of disposal. The RCRA Facilities database is a compilation by the EPA of facilities which report generation, storage, transportation, treatment or disposal of hazardous waste. RCRA Small and Very Small generators are facilities which generate less than 1000 kg/month of non-acutely hazardous waste.

End of Report



